

Re-Analyzing Smarter Balanced Target Results to Inform Instructional Improvement

Connecticut State Department of Education

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Purpose

The Connecticut Board of Education adopted the Connecticut Core Standards in 2010. In the 2018-2019 school year, Connecticut completed its fifth yearly administration of the Smarter Balanced Assessments. These summative assessments are built from assessment targets that tap specific learning objectives – for example; third graders should "multiply and divide within 100", and 6th graders should "reason about and solve one-variable equations and inequalities" (Smarter Balanced Assessment Consortium (SBAC), 2017). Though the students receive only an overall score, the response data include information at the assessment target level for individual students, and allow us to connect performance for students or districts over time on the target level. How is the state of Connecticut doing on the assessment targets? We analyzed this target level data to describe state and district performance over the past four years.

The primary purpose of yearly summative testing is to determine each students' academic performance (Connecticut State Department of Education, 2016). This testing has the potential to be used for "continuous school improvement" and long term sustainable change that improves student achievement (Sparks, 2018). The Smarter Balanced summative assessments provide one reliable estimate of each student's overall performance, however the scores based on subsets of items (targets) are not reliably estimated at the individual level (Smarter Balanced Assessment Consortium, 2017). At the aggregate (district or state) level however, the state assessment has the potential to provide greater insights into the subdomains and thus prove useful for program and curriculum evaluation and professional learning (Connecticut State Department of Education, 2016). The more fine-grained analysis at the district level will enable districts to engage in design-based implementation research which allows for consideration of the context while reflecting on student performance results (Sparks, 2018). We demonstrate one method of data analysis, visualization and communication that could be used to help local education agencies and district leaders reflect on student performance.

Methods

We analyzed anonymized item level data from four years (2016-2019) of Smarter Balanced testing data from Connecticut. Students in 3rd through 8th grade took the computer adaptive test in each spring of each school year. This analysis focused on "Claim 1" (Concepts and Procedures) portion of the Mathematics assessment, though additional analysis was also done on claims 2, 3 and 4. The Item Response Theory (IRT) item parameters were provided by the SBAC on the 2 parameter logistic (2PL) model for dichotomous items and the generalized partial credit model (GPCM) for polytomous items. The SBAC technical report also provided the cut off scores for performance levels (SBAC, 2017). We used the Tidyverse packages (Version 1.2.1; Wickham, 2017) in R for data analysis and graphical displays.

Student Inclusion

All students who had a scaled score were included in analysis. Some analysis were broken down by race/ethnicity, English Proficiency status, gender and economic disadvantage

status. A student's membership in one of the above groups was determined by the record in the testing system at the time of testing. Students who belonged to multiple racial or ethnic groups were included in each group. If a student did not have a gender listed they were not included in either gender group (however they were included in all analysis not related to gender).

Target Scores

The American Institutes for Research (AIR) provides the state of Connecticut with "Target scores." We use their calculations to determine the proficiency of the state and districts on the assessment targets (Target Effect size: described below). AIR classifies districts as "Above" "near" or "below" the proficiency target. However, we desired a more nuanced calculation. Thus instead of assigning a classification to each district, we calculated the district (and state) effect sizes as described below.

Expected Score

We calculated the expected score on each item for a "minimally proficient student." This student was defined to be a student with an overall score (theta value) at the cut off between level 2 (Approaching the Achievement Standard) and level 3 (Meets the Achievement Standard). This theta value was set constant for each grade level. The expected score for this student on each item *i* was calculated using the formulae below:

Dichotomous items (2 Parameter logistic model):

$$E(z_i) = \frac{e^{Da_i(\theta - b_i)}}{1 + e^{Da_i(\theta - b_i)}}$$

Polytomous items (Generalized Partial Credit Model):

$$E(z_i) = \sum_{s=1}^{m_i} \frac{s * e^{\sum_{k=1}^{s} Da_i(\theta - b_{i,k})}}{1 + \sum_{l=1}^{m_i} e^{\sum_{k=1}^{l} Da_i(\theta - b_{i,l})}}$$

Where θ is the theta value of the minimally proficient student, $E_i(\theta)$ is the expected score for such a student, a_i and $b_{i,k}$ are IRT parameters for item i, m_i is the maximum score of the item (1 for dichotomous items), and D is a constant 1.7 (Hambleton, Swaminathan & Rogers, 1991).

We calculated the residual between the score each student received on each item and the expected score for a minimally proficient student:

$$\delta_{ij} = z_{ij} - E_i(\theta)$$

Where δ_{ij} is the residual on item i for student j, z_{ij} is the score on item i for student j and $E_i(\theta)$ is defined as above. The residuals are summed for items within a target. The sum of the residuals is divided by the total number of points for items administered to student j on the target T.

$$\delta_{jT} = \frac{\sum_{i \in T} \delta_{ji}}{\sum_{i \in T} m_i}.$$

Thus each student gets a target score which represents the difference between the student's score and the score that a minimally proficient student would be expected to get, as a percent of the

total number of points available to that student (American Institutes for Research, 2017). A target score of 0 represents minimally proficient, while a target score below 0 is below proficient, and positive target scores represents above proficient

Target Effect Size

Each item is tagged with a measurement target corresponding to a grade level skill assessed in Claim 1 of the math assessment. There are 63 targets measured across grades 3-8 (between 11 and 13 targets for each grade). Students are administered items from the grade level targets according to the Smarter Balanced Assessment Blueprint (Smarter Balanced Assessment Consortium, 2019). Each student takes approximately 2-4 items on a target, though some lower priority targets may not appear on some students' tests. Thus, it is not appropriate to score individual students on these targets. However, a group of students may see a large number of items on a target in aggregate, so the group of students can be assigned a target score.

To calculate an estimate of the mean target score and standard deviation of the target scores for a group we used the following formulae:

$$\bar{\delta}_{Tg} = \frac{1}{n_g} \sum_{j \in g} \delta_{jT} \text{ and } sd(\bar{\delta}_{Tg}) = \sqrt{\frac{1}{(n_g - 1)} \sum_{j \in g} (\delta_{jT} - \bar{\delta}_{Tg})^2}$$

Where g is the group of students, n_g is the number of students in that group and T is the target. These estimates were calculated for students in each grade in each year, the state as a whole, and broken down by race/ethnicity, English proficiency status, gender, and economic disadvantage status, as recorded in the testing database. We also calculated estimates for individual districts with more than twenty students in a grade. Only students who saw items on the target are included in the calculation (American Institutes for Research, 2017).

We then calculated an effect size by dividing the mean target score by the standard deviation of that target score.

$$Effect = \frac{\bar{\delta}_{Tg}}{sd(\bar{\delta}_{Tg})}$$

This effect size gives a measure of the difference between the performance of the group and that of a hypothetical minimally proficient student. The effect size indicates how many standard deviations above or below proficient the group performance is. An effect size of 0 means that the performance of the group is exactly what we would expect from a minimally proficient group, while negative effect sizes represent performance below proficient, and positive effect sizes represent performance above proficient.

Domain Effect sizes

The targets on Claim 1 are grade specific but are grouped into "domains", which are shared among adjacent grades. Grades 3-5 share the domains "Operations and Algebraic Thinking", "Measurement and Data", "Numbers and Operations – Fractions" and numbers and



Operations – Base 10". Grades 6 – 8 share the domains "Expressions and Equations", "Statistics and Probability", and "The Number System". Grades 6 and 7 share the domain "Ratios and Proportional Relationships" and all grades share the "Geometry" domain. Each student gets a domain score in the same way that they are assigned a target score – the difference between their score and a minimally proficient student's score on the same items. The domains and assessment targets for each grade are shown in appendix 1.

In order to track performance over time within these domains, we filtered four cohorts of students from the four years of data. Cohorts were made of students who stayed in their district from grades 3-5 or from 6-8. This resulted in four graduating classes of students; those who will graduate in the years 2025 and 2026 (elementary school cohorts) and those who will graduate in 2022 and 2023 (middle school cohorts). Table 1 shows the grade levels and years for each cohort. A domain effect size for each cohort in each district in each year was calculated using the same method described for the target effect size.

Math teacher certification

We also assigned students a value representing how many teachers in their grade level at their school held additional math certifications. This was determined by calculating the amount of full time equivalent teachers assigned to the student's grade who held a course role of "Elementary Teacher", "Elementary Mathematics", "Mathematics", "Content Coach: Numeracy", "Mathematics: Remedial", "Academic Support Instructor – Mathematics", "Gifted and Talented", or "Math Consultant". We calculated the percent of all such full-time equivalent teachers who held at least one additional mathematics certification. These certifications include 029 (Mathematics, Grades 7 to 12), 229 (Mathematics, Middle School), 929 (Mathematics: Bilingual 7-12) and 968 (Mathematics: Bilingual, Middle school). Some teachers hold more than one additional math certification. Thus each student was assigned a number representing the prevalence of additional math certifications in their grade and school. Higher numbers do not guarantee that a student was taught by a math certified teacher, however we infer that higher numbers are associated with more math pedagogical content knowledge in that school.

Rough and Matched cohorts

For the district analysis, two types of cohorts were defined. A rough cohort of students was all of the students in a district who shared a projected high school graduation year at the time of testing. A matched cohort of students was all of the students in a district who shared a projected high school graduation year *and* had been in the same district without repeating or skipping grades for three elementary years (Grades 3-5) or three middle school years (Grades 6-8). The table below shows the graduation and testing year for the matched cohorts.

	Graduation	Grade 3	Grade 4	Grade 5	Grade 6	Grade 7	Grade 8
	Year	Test Year	Test Year	Test Year	Test Year	Test Year	Test Year
Elementary	2026	2017	2018	2019			
Cohorts	2025	2016	2017	2018			
Middle	2023				2017	2018	2019
Cohorts	2022				2016	2017	2018



Suppression rules

Only domains/targets where 20 or more students responded to questions are plotted. This means that even if a cohort has 20 students, there may be a year where one or more domains is not plotted. This occurs when a domain is made up of lower priority targets, and students are not guaranteed to be administered an item from that target in that year. Entire graphs are suppressed where there was not enough data to support more than 10 plotted points.

Results

Statewide targets and major work of the grade

We created plots of target and domain effect sizes for the state and local districts and drafted a document to help districts read the plots. Plots for the state are shown as figures below. The first six plots show all targets for all students in all grades in the state. The next six plots show all of the targets marked "Major work of the grade" for all students in all grades in the state. The remaining plots show the target performance for each grade broken down by demographic membership. The final plot demographic membership in a school where more teachers hold extra math certification. See above for our definition of this tag. Appendix 2 contains these plots.

The grade level plots show how third grade appears to be increasing in performance over time. Third graders are strongest in "develop understanding of fractions as numbers" and "Solve problems involving measurement and estimation of intervals of time, liquid volumes, and masses of objects". By 2019, all targets were at least near proficiency with the top two targets exceeding the proficiency standard. The weakest targets include "solve problems involving the four operations and identify and explain patterns in arithmetic," "multiply and divide within 100" as well as "Represent and solve problems involving multiplication and division." Fourth grade also shows an increase over time, with the target "build fractions from unit fractions" above proficiency. However, some fourth grade targets are below the proficiency line – though they would still be considered "near proficient." These include "Use the four operations with whole numbers to solve problems" as well as "Extend understanding of fraction equivalence and ordering." Fifth grade shows a similar pattern – increase over time, though now all targets are near proficient and most are below the proficiency line. The highest is "Understand concepts of volume and relate volume to multiplication and to addition" while the lowest is "perform operations with multi-digit whole numbers and with decimals to hundredths. Across the elementary grades the targets related to solving problems seem to have the greatest need.

Sixth grade does not show as much growth as the lower grades. No target is above the proficiency line and one target is approaching "below proficiency" – this target is "Compute fluently with multi-digit numbers and find common factors and multiples." It appears that the 6th grade material is posing a greater challenge for students in Connecticut. Seventh grade shows more growth in the major work of the grade, though the "additional" targets are flat lined or decreasing. This shows that the major work of the grades are being prioritized. The strongest target in 7th grade is "Use properties of operations to generate equivalent expressions" while the weakest is "solve real-life and mathematical problems using numerical and algebraic expressions and equations." The 8th grade targets are clustered closer to proficiency than the 7th grade



targets, though the major work of the grade targets are lower than in 7th grade. All of the 8th grade targets are near proficiency for the state. The strongest 8th grade target is "understand and apply the Pythagorean theorem" while the weakest include "Understand congruence and similarity, "Define, evaluate and compare functions" and "Analyze and solve linear equations and pairs of simultaneous linear equations."

Statewide domain plots

The state wide domain plots show state performance for two rough cohorts of students in the state in the elementary grades and two rough cohorts in the middle grades. Here, the drop from 3rd through 5th grade is apparent. The fractions domain is the highest in most grades, but also has the steepest decline. Operations and algebraic thinking and geometry are both near or below zero in both cohorts across the three years. The younger students (Graduation year 2026) are consistently higher performing than their older peers – which shows growth in the state over time. The depressed performance in grades 6-8 is also shown in these plots. The statistics and probability domain shows the most growth from 7th to 8th grade. The number systems domain is generally lower than the other domains. Again, the younger cohort is generally above the older cohort, though there are some exceptions in these grades.

Break down by demographic groups

The racial breakdown of the state consistently shows large differences between racial and ethnic groups. Asian students perform at a higher level than white students who perform at a higher level than black or African American and Hispanic students (who perform at the same level). These differences grow over time with each group clustering closer to the group average as the grades progress – Asian students near .5, white students near 0, and Hispanic and black students near -.5.

There is also a large disparity between students who are economically disadvantaged and those who are not. The difference is around .5 target units in each year with economically disadvantaged students performing around -.25 (below proficient) while their counterparts perform around .25 (above proficient) in third grade. This pattern repeats in each grade, though the performance of both groups decreases as the grade levels progress until in 8th grade the economically disadvantaged students perform around -.5 while their counterparts perform a little bit above 0.

The starkest difference is between students who are identified as limited English proficiency. In each grade, these students perform a whole target score unit below their peers. There is also a large range between target scores within this group. There are not significant differences in target performance by gender in any grade. In some targets, girls are higher while in others boys are higher. There does not appear to be a large difference in performance based on students in schools with more teachers holding math endorsement in any grade. However in 5^{th} and 6^{th} grade there is a small difference – about .1 in most targets.

District level plots

We also created district plots that show cohorts of students' effect sizes at the domain level across three grades: elementary grades 3-5 and middle grades 6-8. This will allow districts to track overall performance on the domains as students progress through the grades. These plots have separate lines for each cohort, showing change between cohorts of students, and hence



change from year to year. The figures include an example for one district. We anticipate that districts will be able to use these plots to guide discussion about future professional development for teachers.

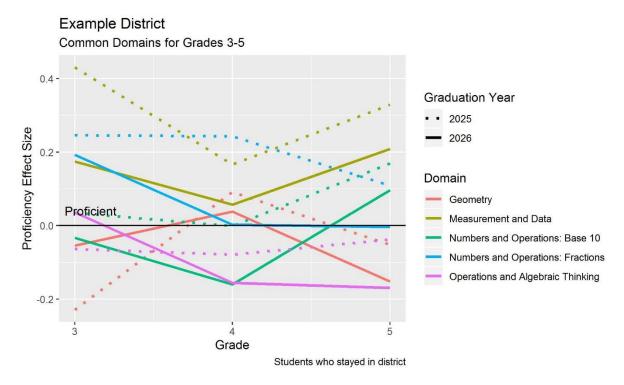
Each district has a total of 8 plots.

- 1. Common domains for grades 3-5, matched cohort
- 2. Common domains for grades 6-8, matched cohort
- 3. Grade 3 Target performance
- 4. Grade 4 target performance
- 5. Grade 5 target performance
- 6. Grade 6 target performance
- 7. Grade 7 target performance
- 8. Grade 8 target performance

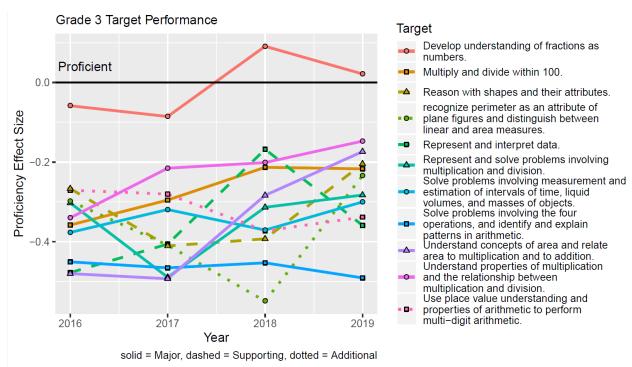
The first plot below is an example of plot1, Common domains for grades 3-5, matched cohort. The dotted lines show the cohort who will graduate in 2025 (Grade 3 = 2016, Grade 4 = 2017, Grade 5 = 2018) and the solid lines show the cohort who will graduate in 2026 (Grade 3 = 2017, Grade 4 = 2018, Grade 5 = 2019). We see overall most domains are between -.2 and .2, so "near proficient". The exceptions are "Measurement and Data" and "Numbers and Operations: Fractions" for the students who will graduate in 2025; these domains are above proficient in some places.

Looking closely we can see some patterns; if a district was looking only at proficiency for the class of 2026 (solid lines) it would appear that all targets are near proficient. However, the "Measurement and Data" domain is higher than the "Operations and Algebraic thinking" domain across all three years. This difference is small (close to .2) in 3rd grade, but it grows larger by 5th grade. A district leader may decide to focus more time on "Operations an Algebraic thinking" in 5th grade.

We can also look within a domain for patterns. It appears that for both the class of 2025 and the class of 2026 the "Numbers and Operations: Base 10" Effect size decreases from grade 3 to grade 4 then increases from grade 4 to grade 5. Though the changes are small, this pattern was replicated in both cohorts. This may be a place where a district leader could consider some additional professional development.



The next plot is an example of plot type 3. There is one line for each target. This plot has all of the students who tested in grade 3 in the spring of the years 2016, 2017, 2018 and 2019. This district has one target "near proficient" for all four years: "Develop understanding of fractions as numbers." Across the four years there appears to be an overall pattern of growth; third grade performance has been improving on most targets in this district.



References

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Appendix 1 Domains and Assessment Targets by Grade

The table below shows the assessment targets that make up a domain in each grade

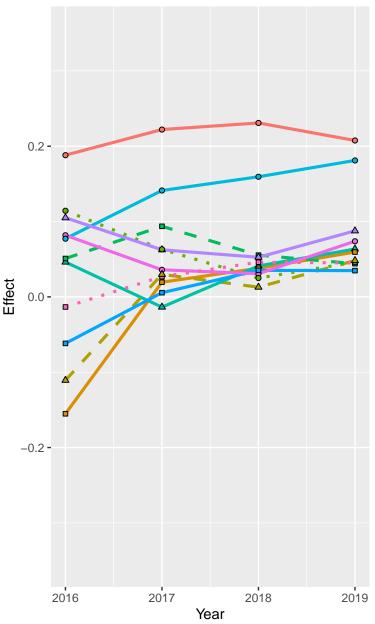
	Operations and Algebraic Thinking	Numbers and Operations, Base 10	Numbers and Operations: Fractions	Measurement and Data	Geometry
3	A. Represent and solve problems involving multiplication and division. B. Understand properties of multiplication and the relationship between multiplication and division. C. Multiply and divide within 100. D. Solve problems involving the four operations, and identify and explain patterns in arithmetic.	E. Use place value understanding and properties of arithmetic to perform multi-digit arithmetic.	F. Develop understanding of fractions as numbers.	G. Solve problems involving measurement and estimation of intervals of time, liquid volumes, and masses of objects. H. Represent and interpret data. I. Geometric measurement: Understand concepts of area and relate area to multiplication and to addition. J. Geometric measurement: recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.	K. Reason with shapes and their attributes.

	Operations and Algebraic Thinking	Numbers and Operations, Base 10	Numbers and Operations: Fractions	Measurement and Data	Geometry
4	A. Use the four operations with whole numbers to solve problems. B. Gain familiarity with factors and multiples. C. Generate and analyze patterns.	D. Generalize place value understanding for multidigit whole numbers. E. Use place value understanding and properties of operations to perform multi-digit arithmetic.	F. Extend understanding of fraction equivalence and ordering. G. Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers. H. Understand decimal notation for fractions, and compare decimal fractions.	I. Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit. J. Represent and interpret data. K. Geometric measurement: understand concepts of angle and measure angles.	L. Draw and identify lines and angles, and classify shapes by properties of their lines and angles.
	Operations and Algebraic Thinking	Numbers and Operations, Base 10	Numbers and Operations: Fractions	Measurement and Data	Geometry
5	A. Write and interpret numerical expressions. B. Analyze patterns and relationships.	C. Understand the place value system. D. Perform operations with multi-digit whole numbers and with decimals to hundredths.	E. Use equivalent fractions as a strategy to add and subtract fractions. F. Apply and extend previous understandings of multiplication and division to multiply and divide fractions	G. Convert like measurement units within a given measurement system, H. Represent and interpret data. I. Geometric measurement: Understand concepts of volume and relate volume to multiplication and addition	J. Graph points on the coordinate plane to solve realworld and mathematical problems K. Classify two-dimensional figures into categories based on their properties.

	Ratios and Proportional Relationships	The Number System	Expressions and Equations	Geometry	Statistics and Probability
6	A. Understand ratio concepts and use ratio reasoning to solve problems.	B. Apply and extend previous understandings of multiplication and division to divide fractions by fractions. C. Compute fluently with multi-digit numbers and find common factors and multiples. D. Apply and extend previous understandings of numbers to the system of rational numbers.	E. Apply and extend previous understandings of arithmetic to algebraic expressions. F. Reason about and solve one-variable equations and inequalities G. Represent and analyze quantitative relationships between dependent and independent variables.	H. Solve real-world and mathematical problems involving area, surface area, and volume.	I. Develop understanding of statistical variability J. Summarize and describe distributions

	Ratios and Proportional Relationships	The Number System	Expressions and Equations	Geometry	Statistics and Probability
7	A. Analyze proportional relationships and use them to solve real-world and mathematical problems.	B. Apply and extend previous understandings of operations with fractions to add, subtract, multiply and divide rational numbers.	C. Use properties of operations to generate equivalent expressions. D. Solve real-life and mathematical problems using numerical and algebraic expressions and equations.	E. Draw, construct and describe geometrical figures and describe the relationships between them. F. Solve real-life and mathematical problems involving angle measure, area, surface area, and volume.	G. Use random sampling to draw inferences about a population. H. Draw informal comparative inferences about two populations. I. Investigate chance processes and develop, use, and evaluate probability models.
	The Number System	Expressions and Equations	Functions	Geometry	Statistics and Probability
8	A. Know that there are numbers that are not rational, and approximate them by rational numbers	B. Work with radicals and integer exponents. C. Understand the connections between proportional relationships, lines, and linear equations. D. Analyze and solve linear equations and pairs of simultaneous linear equations.	E. Define, evaluate, and compare functions.F. Use functions to model relationships between quantities.	G. Understand congruence and similarity using physical models, transparencies, or geometry software. H. Understand and apply the Pythagorean theorem. I. Solve real-world and mathematical problems involving volume of cylinders, cones and spheres.	J. Investigate patterns of association in bivariate data



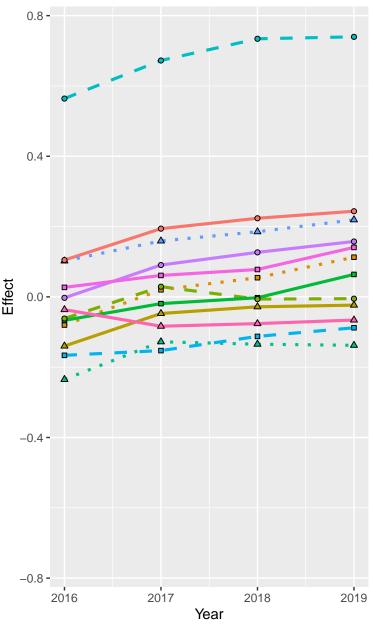


- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division.

 Solve problems involving measurement and
- estimation of intervals of time, liquid volumes, and masses of objects.
- Solve problems involving the four operations, and identify and explain patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
 Use place value understanding and properties of arithmetic to perform
- properties of arithmetic to p

4th Grade Target Performance

DRAFT



solid = Major, dashed = Supporting, dotted = Additional

Target

Build fractions from unit fractions by applying and extending previous understandings of operations on whole

numbers.

Draw and identify lines and angles, and classify shapes by properties of their

lines and angles.
Extend understanding of fraction equivalence and ordering.

Gain familiarity with factors and multiples.
Generalize place value understanding for

multi-digit whole numbers.

Generate and analyze patterns.

Represent and interpret data.

 Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

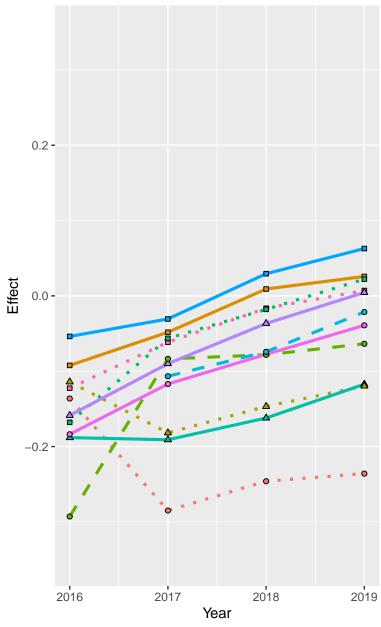
understand concepts of angle and measure angles.
Understand decimal notation for

fractions, and compare decimal fractions.
Use place value understanding and

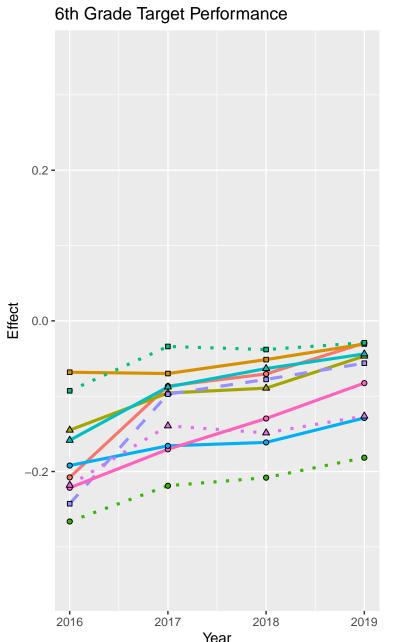
properties of operations to perform multi–digit arithmetic.

Use the four operations with whole numbers to solve problems.





- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to multiply and divide fractions.
- Classify two-dimensional figures into categories based on their properties.
 Convert like measurement units within a
 - given measurement system.
 Graph points on the coordinate plane
 to solve real–world and mathematical
- problems.
 Perform operations with multi–digit
 whole numbers and with decimals to
- hundredths.Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

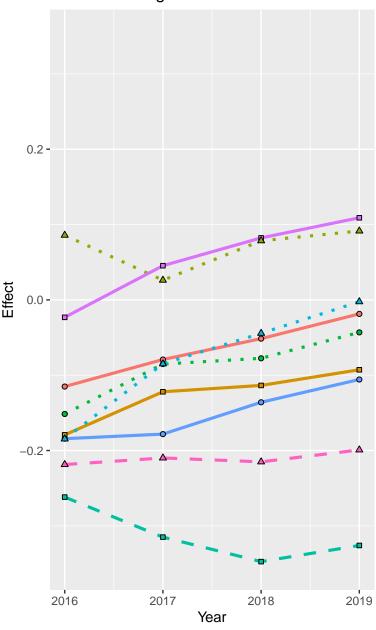


- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.

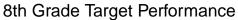
 Apply and extend previous understandings
- of numbers to the system of rational numbers.
 Compute fluently with multi-digit
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.

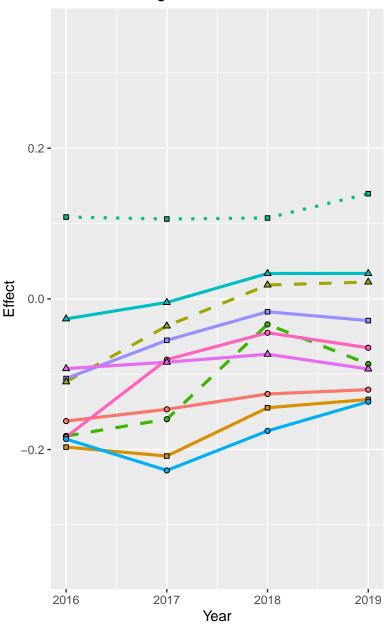
 Reason about and solve one-variable
- equations and inequalities.
 Represent and analyze quantitative
 relationships between dependent and
- independent variables.
 Solve real–world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.



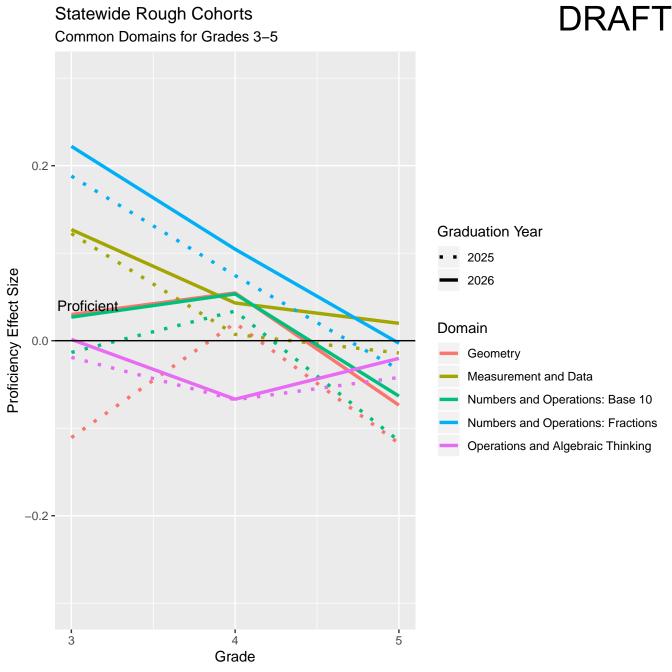


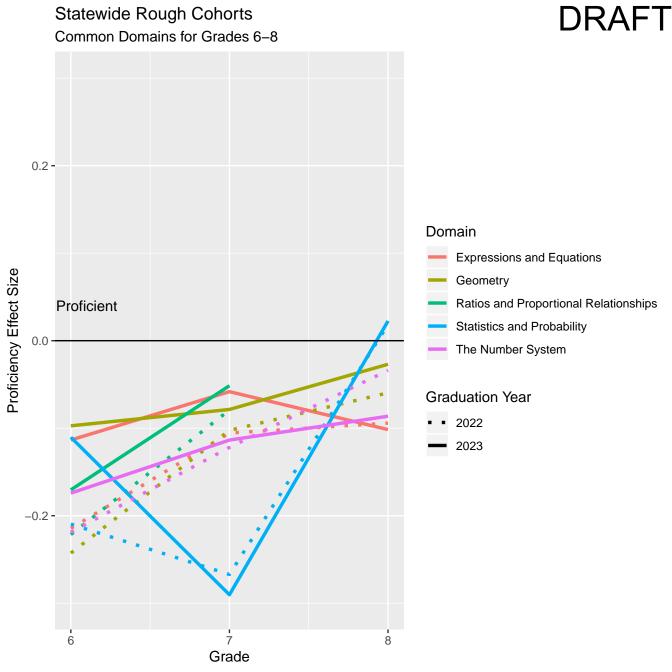
- Analyze proportional relationships and use them to solve real-world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational
- numbers.
 Draw informal comparative inferences
- about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical
- problems involving angle measure, area, surface area, and volume.
 Solve real-life and mathematical
- problems using numerical and algebraic expressions and equations.
 Use properties of operations to generate
- equivalent expressions.
 Use random sampling to draw inferences
- about a population.





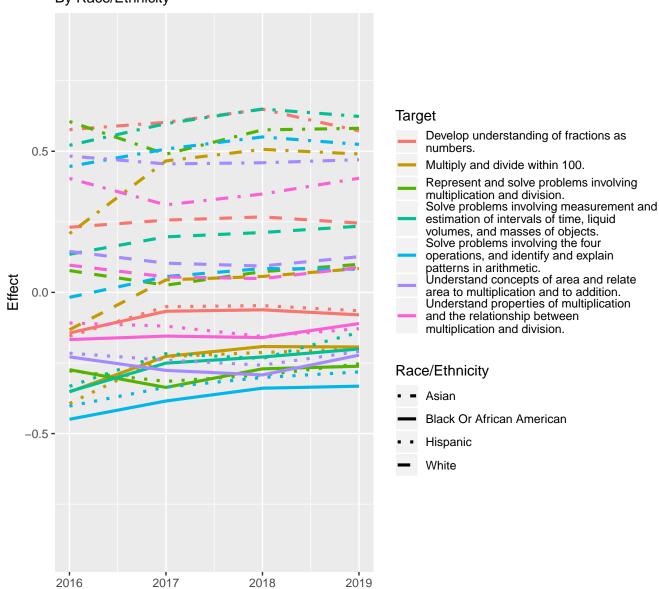
- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions: Define, evaluate, and compare
- functions.
 Investigate patterns of association in
- bivariate data.
 Know that there are numbers that are not rational, and approximate them by
- rational numbers.
 Solve real–world and mathematical problems involving volume of cylinders,
- cones and spheres.
 Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
 Understand the connections between
- proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
- Work with radicals and integer exponents.





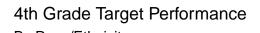


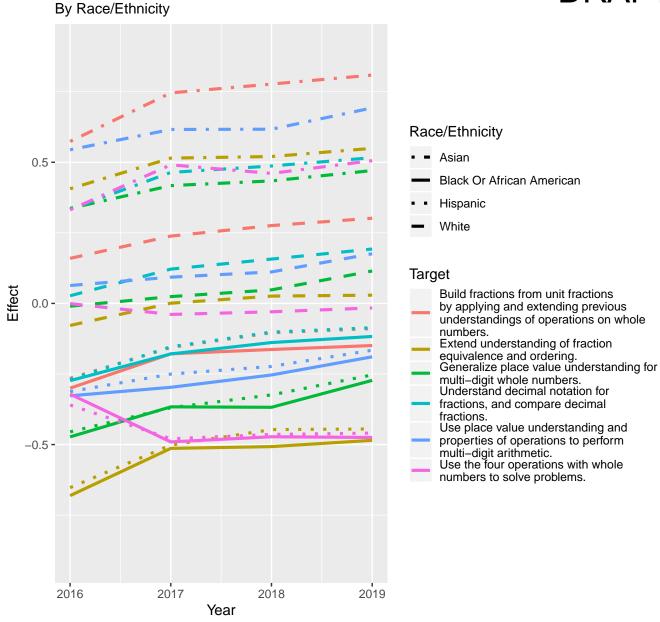




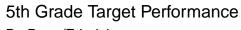
^{*}Students identifying in two groups are included in both groups.

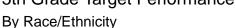
Year

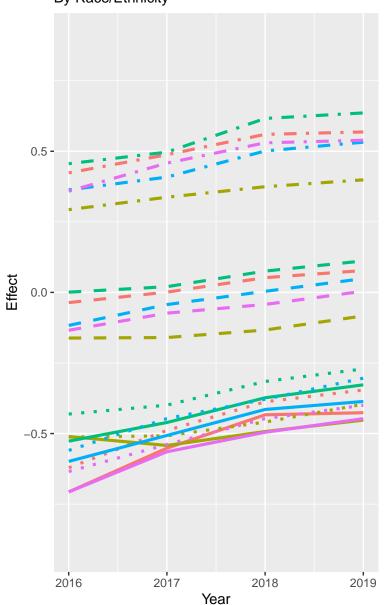




^{*}Students identifying in two groups are included in both groups.







Target

Apply and extend previous understandings of multiplication and division to multiply and divide fractions. Perform operations with multi-digit whole numbers and with decimals to

hundredths. Understand concepts of volume and

relate volume to multiplication and to addition.

Understand the place value system.

Use equivalent fractions as a strategy to add and subtract fractions.

Race/Ethnicity

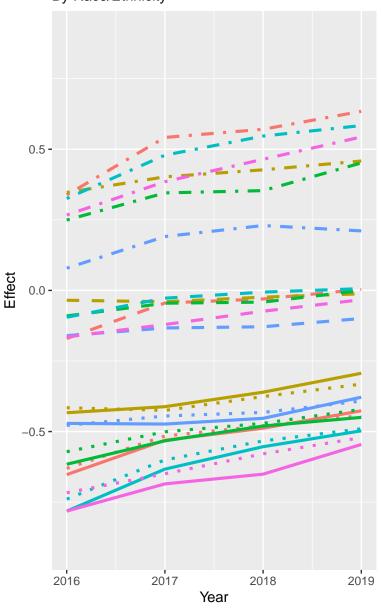
- Asian
- Black Or African American
- Hispanic
- White

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^{*}Students identifying in two groups are included in both groups.







Target

Apply and extend previous understandings of arithmetic to algebraic expressions.

Apply and extend previous understandings of multiplication and division to divide

fractions by fractions.

Apply and extend previous understandings of numbers to the system of rational

numbers.

Reason about and solve one–variable

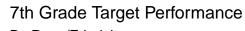
equations and inequalities.
Represent and analyze quantitative relationships between dependent and

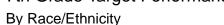
independent variables.
Understand ratio concepts and use ratio reasoning to solve problems.

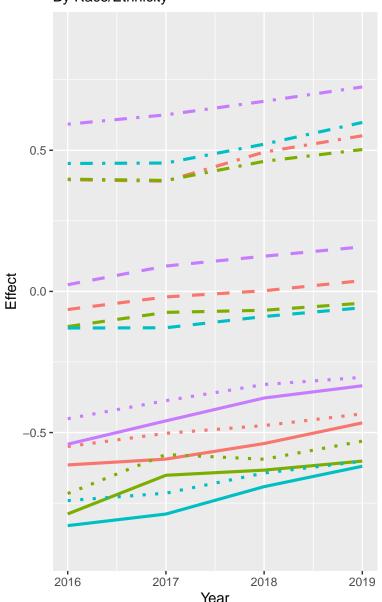
Race/Ethnicity

- Asian
- Black Or African American
- Hispanic
- White

^{*}Students identifying in two groups are included in both groups.







Race/Ethnicity

- Asian
- Black Or African American

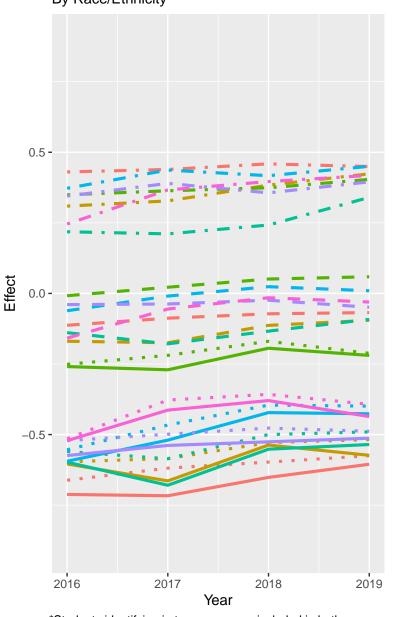
- Hispanic
- White

- Analyze proportional relationships and use them to solve real-world and mathematical problems. Apply and extend previous understandings
- of operations with fractions to add, subtract, multiply, and divide rational
- numbers. Solve real-life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.

^{*}Students identifying in two groups are included in both groups.







Target

Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.

Understand and apply the Pythagorean

theorem.
Understand congruence and similarity

using physical models, transparencies, or geometry software.
Understand the connections between proportional relationships, lines, and

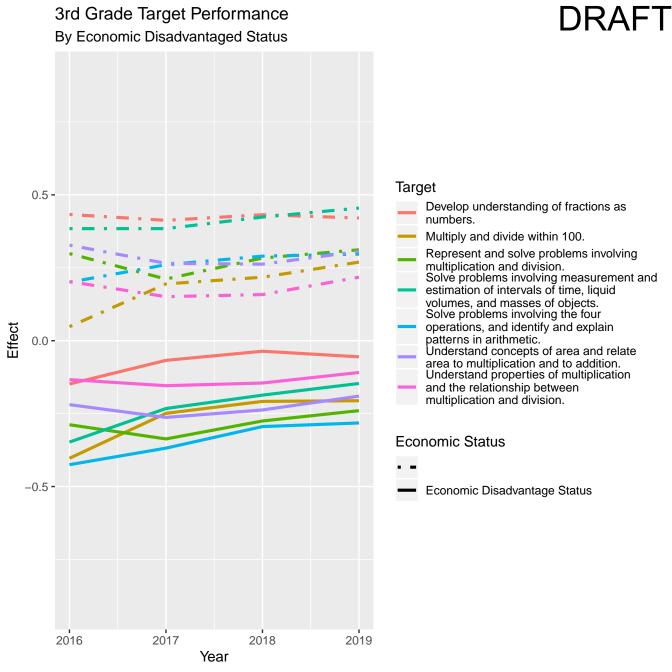
linear equations.
Use functions to model relationships between quantities.
Work with radicals and integer

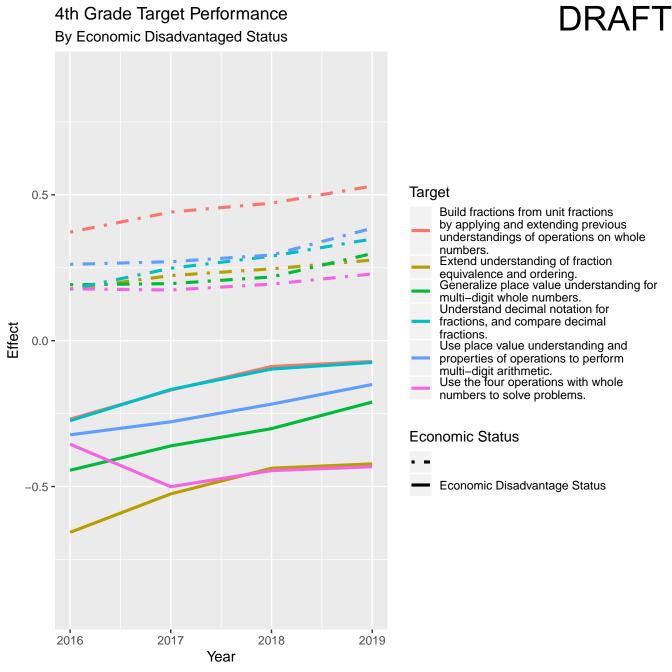
Work with radicals an exponents.

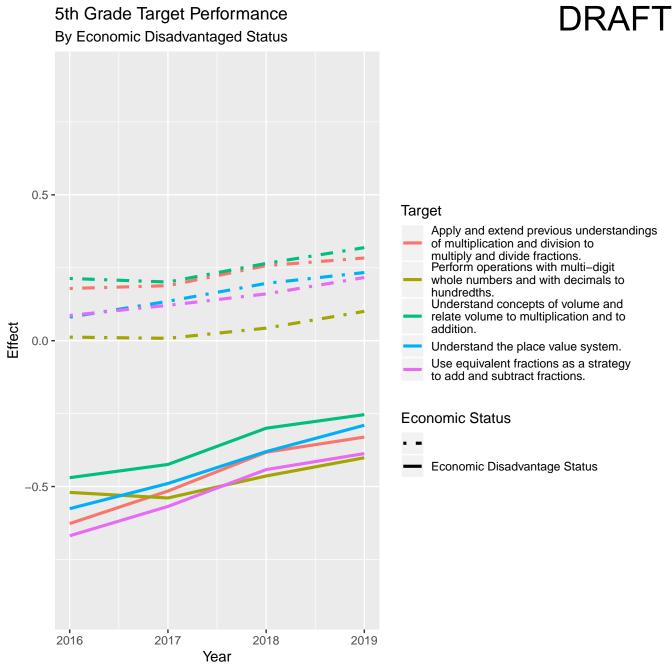
Race/Ethnicity

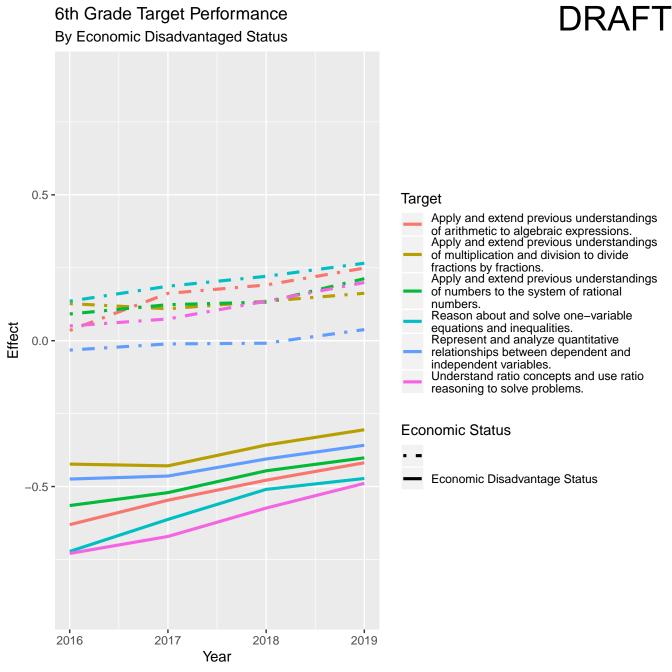
- Asian
- Black Or African American
- Hispanic
- White

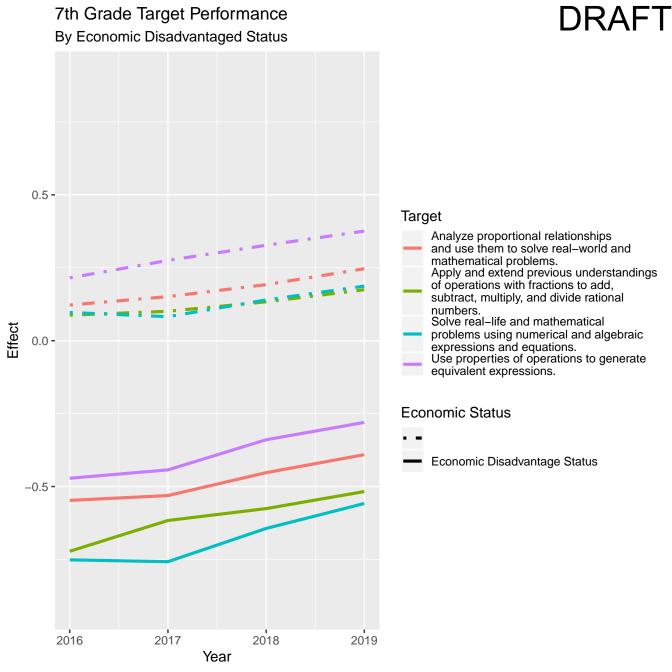
^{*}Students identifying in two groups are included in both groups.

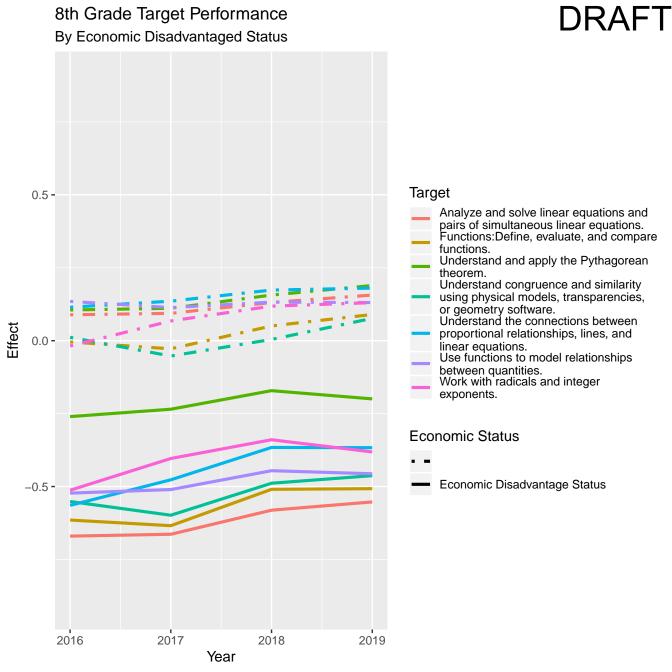


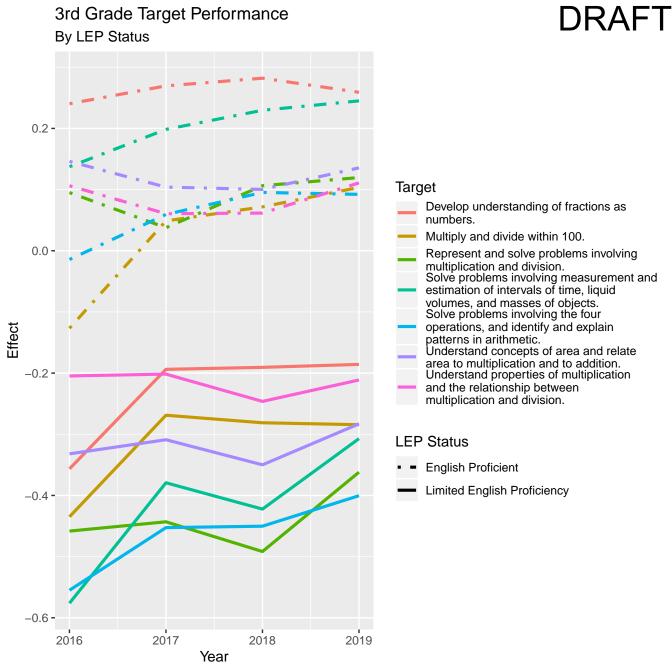


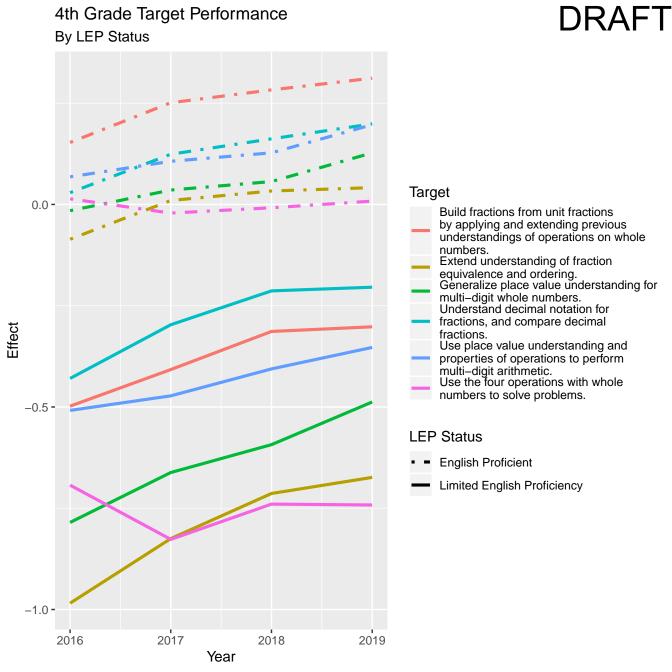


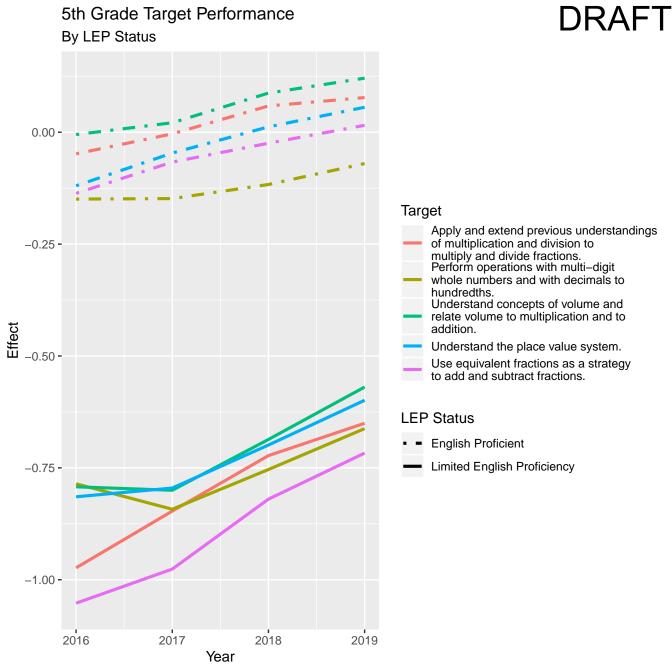


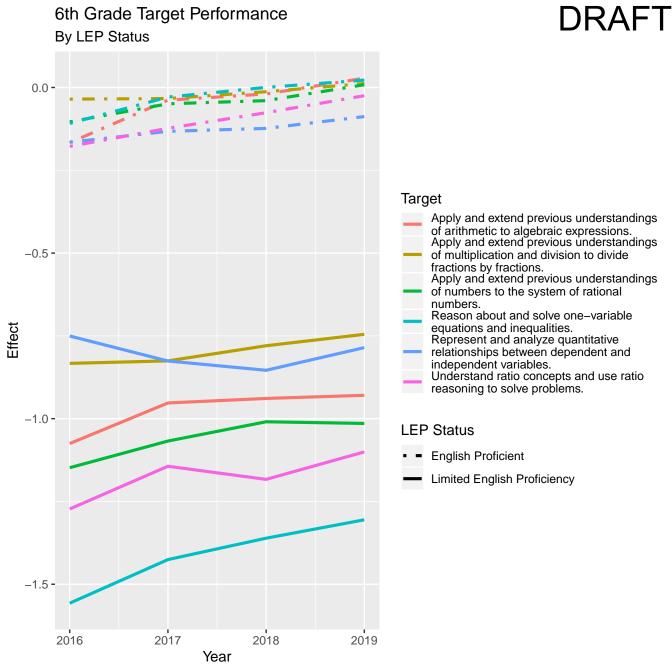


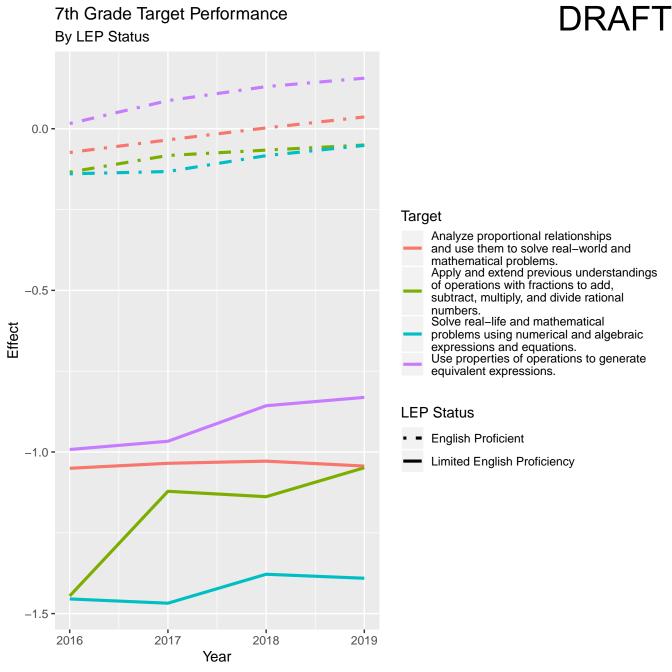


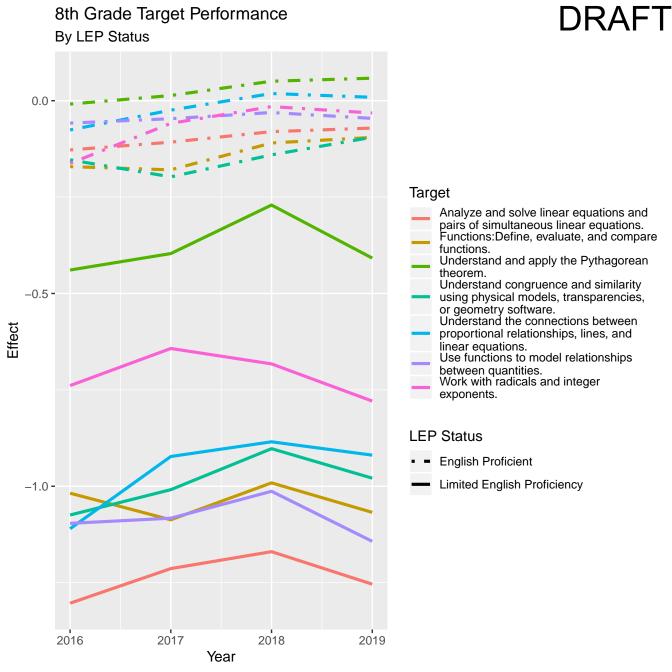


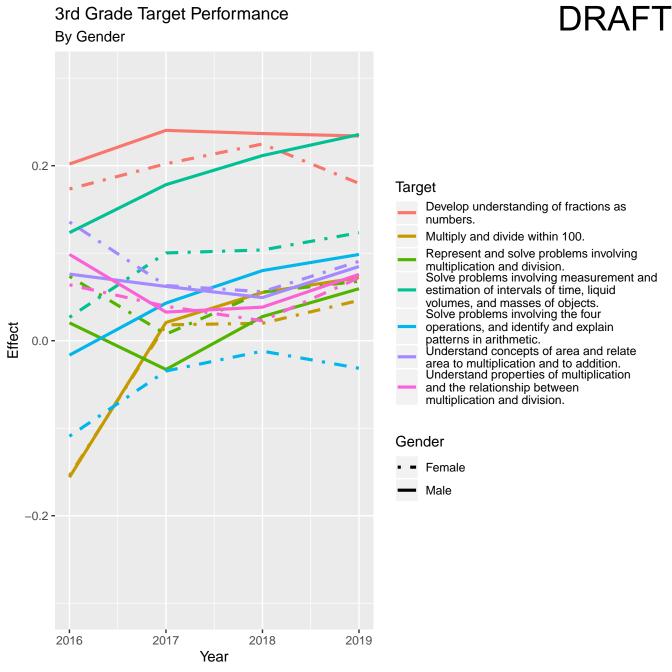


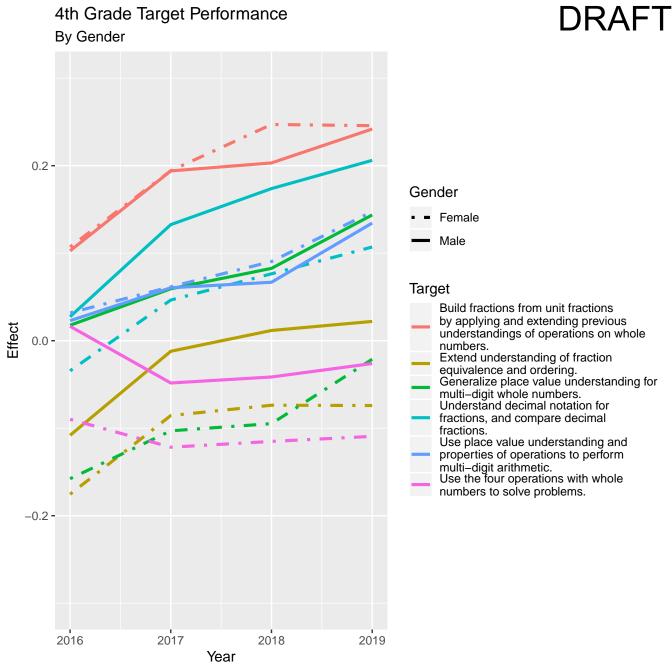


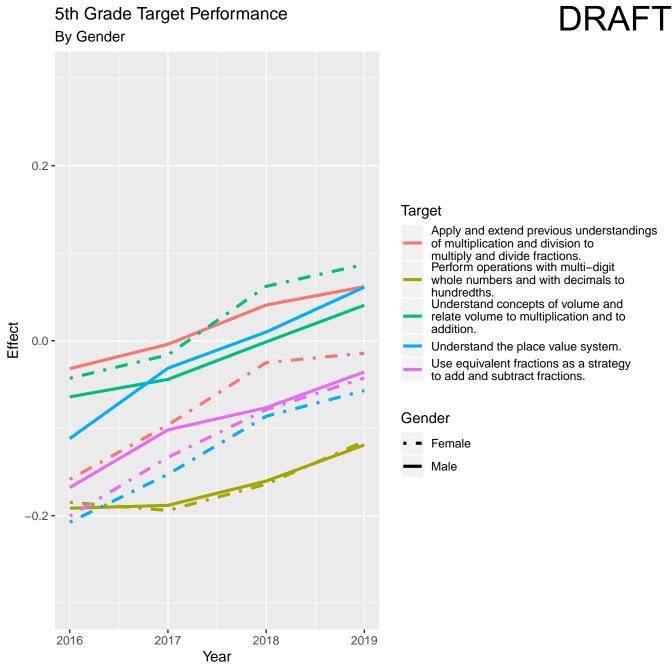


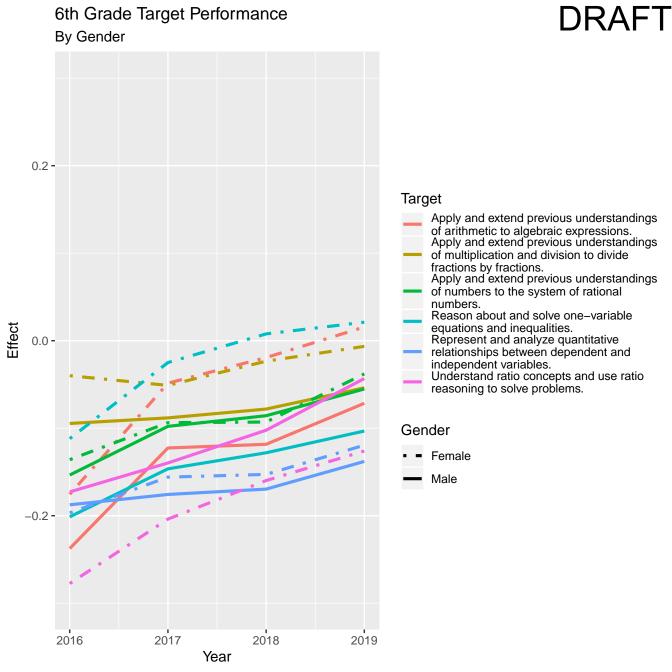


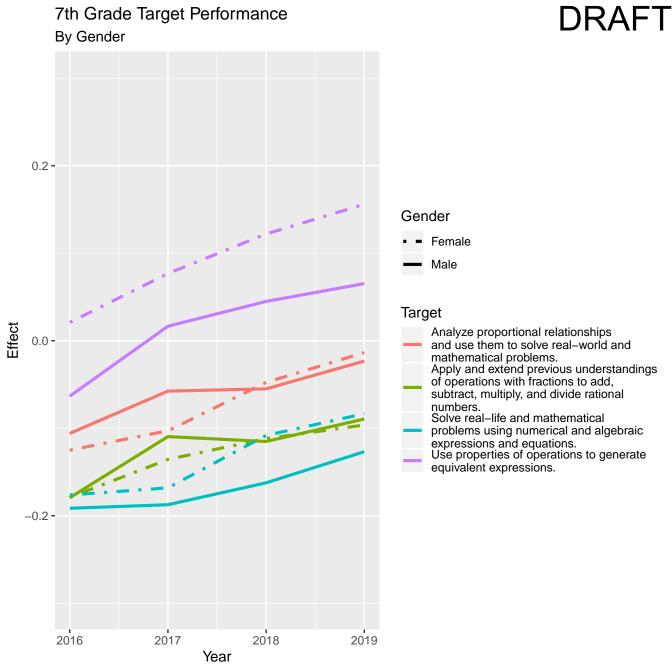


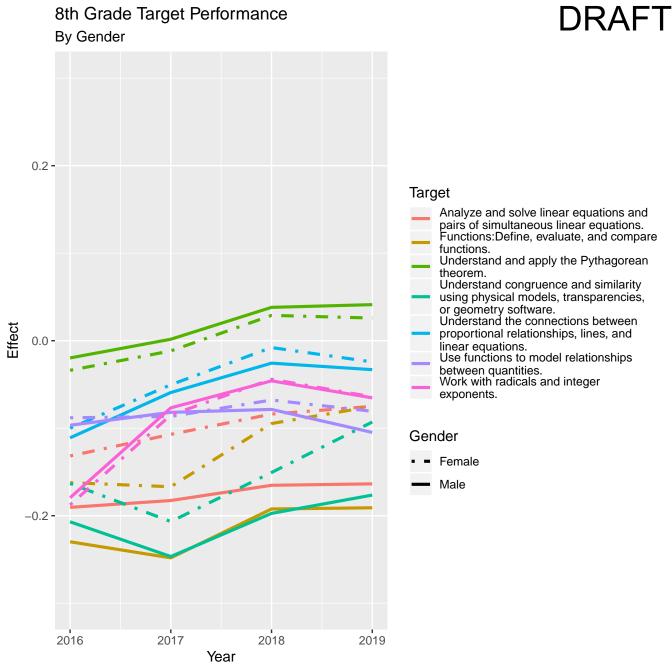


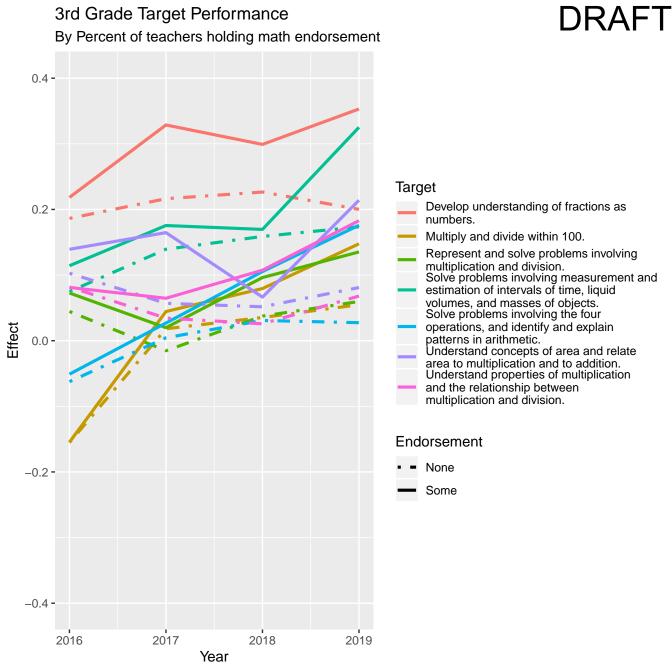


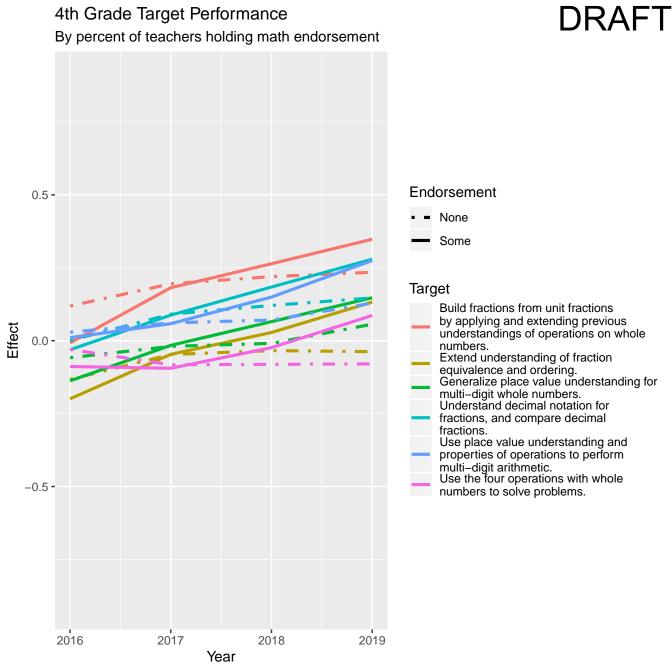


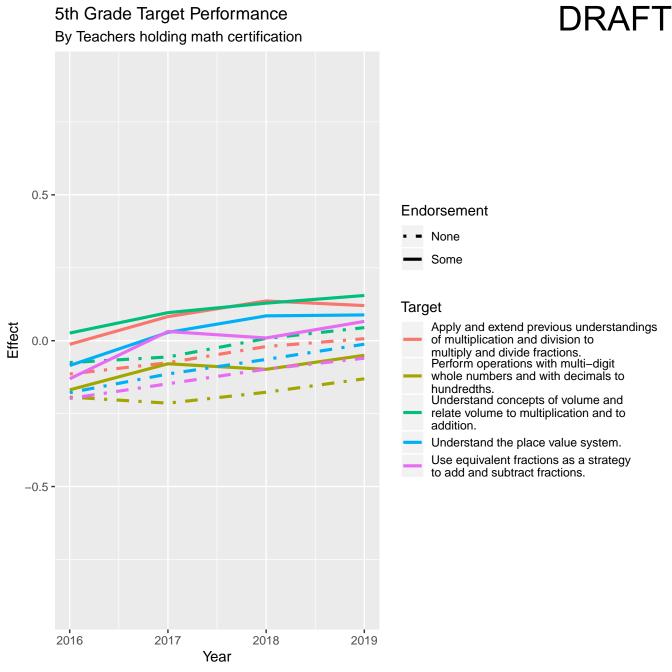


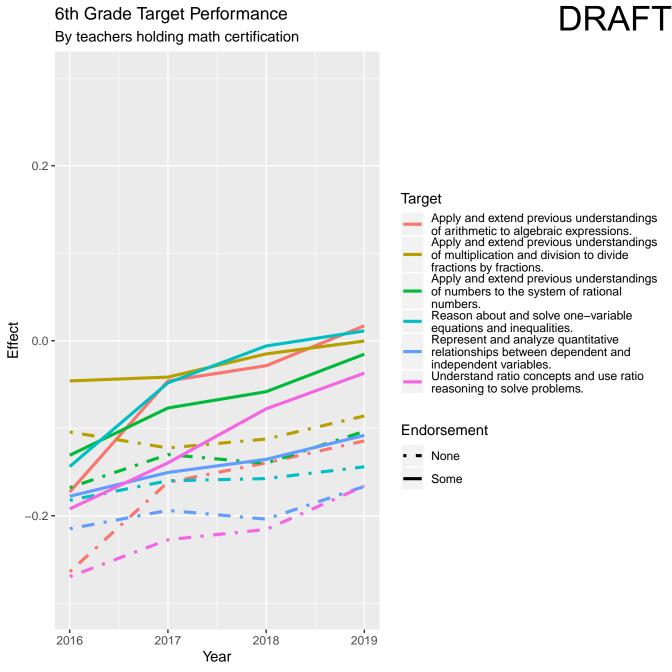


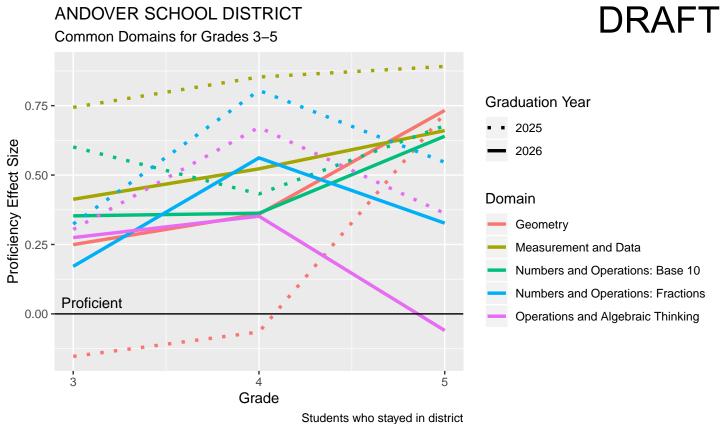






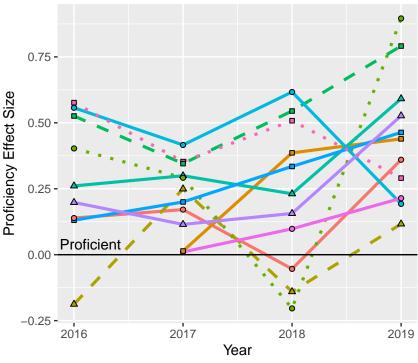






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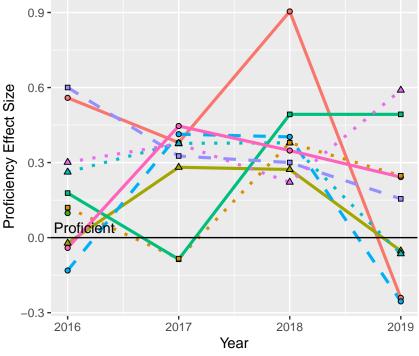




Target

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
- estimation of intervals of time, liquid
- volumes, and masses of objects. Solve problems involving the four
- operations, and identify and explain patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division. Use place value understanding and
- properties of arithmetic to perform multi-digit arithmetic.

Grade 4 Target Performance

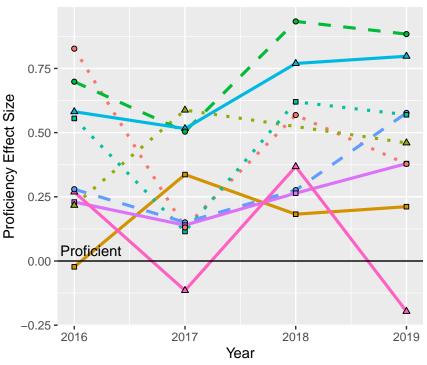


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- Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.
- Draw and identify lines and angles, and classify shapes by properties of their lines and angles.
- Extend understanding of fraction equivalence and ordering.
 Gain familiarity with factors and
- multiples.
 Generalize place value understanding for
- multi-digit whole numbers.
 Solve problems involving measurement and conversion of measurements from a larger
- unit to a smaller unit.
 understand concepts of angle and measure
 angles.
- Understand decimal notation for fractions, and compare decimal fractions.
- Use place value understanding and properties of operations to perform multi–digit arithmetic.
 Use the four operations with whole
- Use the four operations with whole numbers to solve problems.

Grade 5 Target Performance



solid = Major, dashed = Supporting, dotted = Additional

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Target

Apply and extend previous understandings of multiplication and division to

multiply and divide fractions.

Classify two–dimensional figures into categories based on their properties.
Convert like measurement units within a

given measurement system.
Graph points on the coordinate plane

 to solve real-world and mathematical problems.

Perform operations with multi-digit whole numbers and with decimals to hundredths.

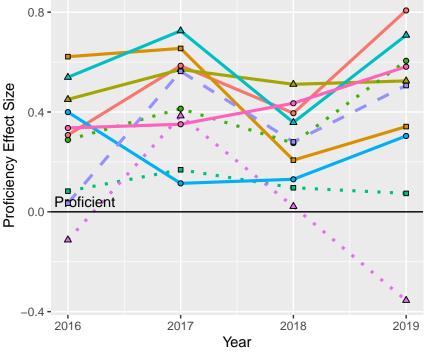
 Understand concepts of volume and relate volume to multiplication and to addition.

Understand the place value system.

Use equivalent fractions as a strategy to add and subtract fractions.

Write and interpret numerical expressions.

Grade 6 Target Performance



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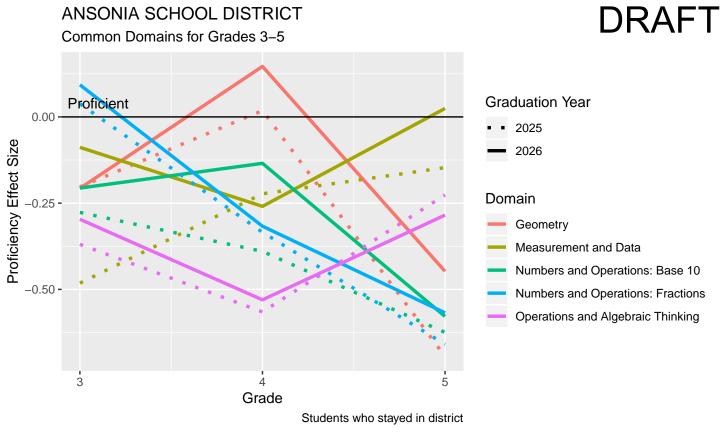
Target

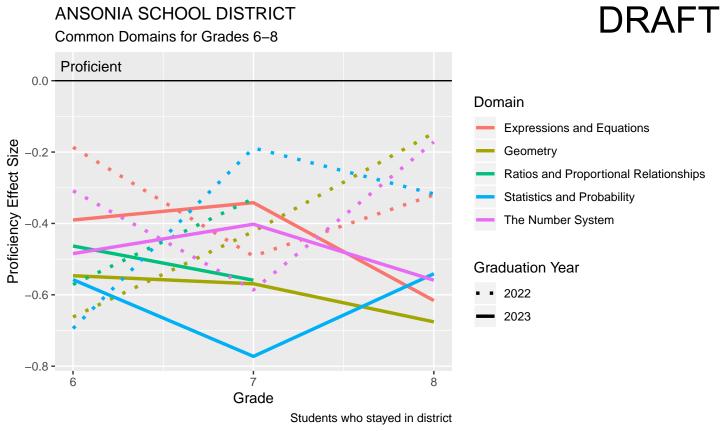
- Apply and extend previous understandings of arithmetic to algebraic expressions.

 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi-digit
 numbers and find common factors and
- multiples.

 Develop understanding of statistical
- variability.

 Reason about and solve one-variable
- equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real–world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

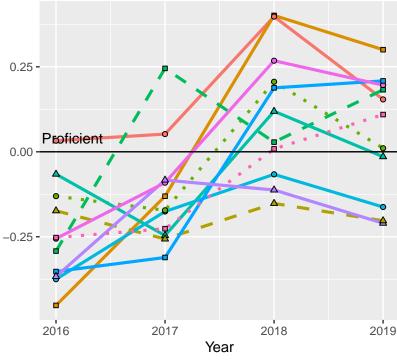




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Proficiency Effect Size

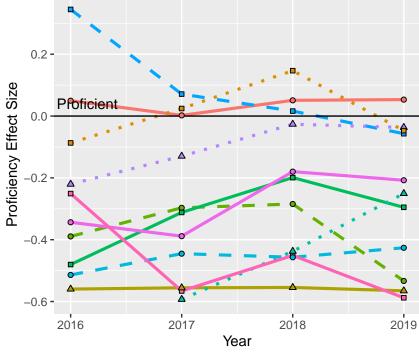


Target

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division.
 Solve problems involving measurement and
- Solve problems involving measurement and estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four
- operations, and identify and explain patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi–digit arithmetic.

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Grade 4 Target Performance

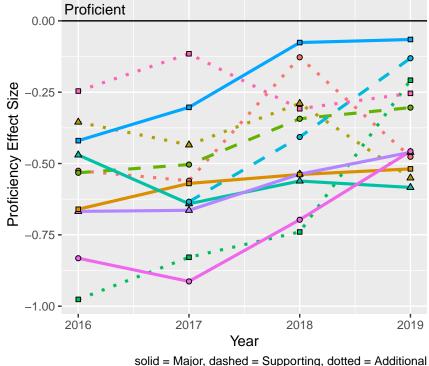


Target

- Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.
- Draw and identify lines and angles, and classify shapes by properties of their lines and angles.
- Extend understanding of fraction equivalence and ordering.
 Gain familiarity with factors and
- multiples.
 Generalize place value understanding for multi–digit whole numbers.
- Generate and analyze patterns.
- Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.
- understand concepts of angle and measure angles.
- Understand decimal notation for fractions, and compare decimal fractions.
 Use place value understanding and
- properties of operations to perform multi-digit arithmetic.
 Use the four operations with whole
- Use the four operations with whol numbers to solve problems.

solid = Major, dashed = Supporting, dotted = Additional

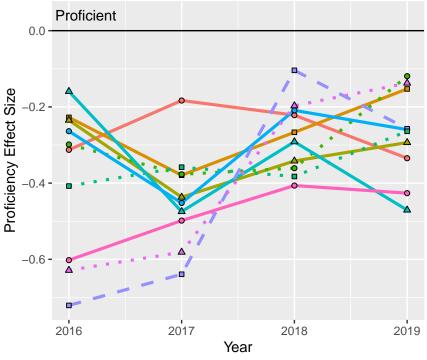
Grade 5 Target Performance



DRAFT

- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions. Classify two-dimensional figures into
- categories based on their properties. Convert like measurement units within a
- given measurement system. Graph points on the coordinate plane
- to solve real-world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance

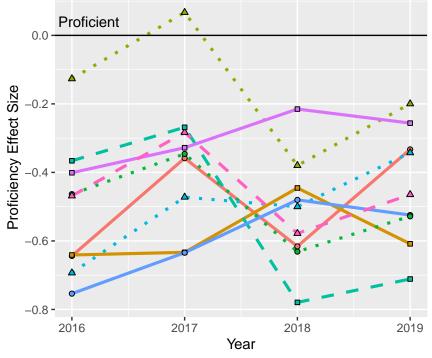


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- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi–digit
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one-variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real-world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance



solid = Major, dashed = Supporting, dotted = Additional

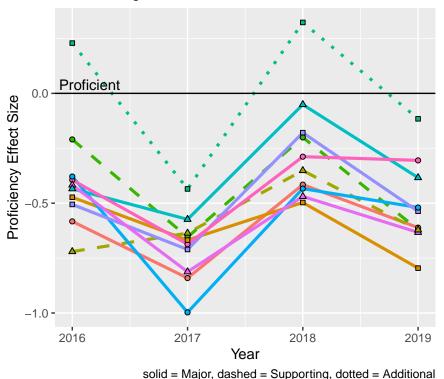
DRAFT

- Analyze proportional relationships and use them to solve real–world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add,
- of operations with fractions to add, subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical problems involving angle measure, area,
- surface area, and volume.

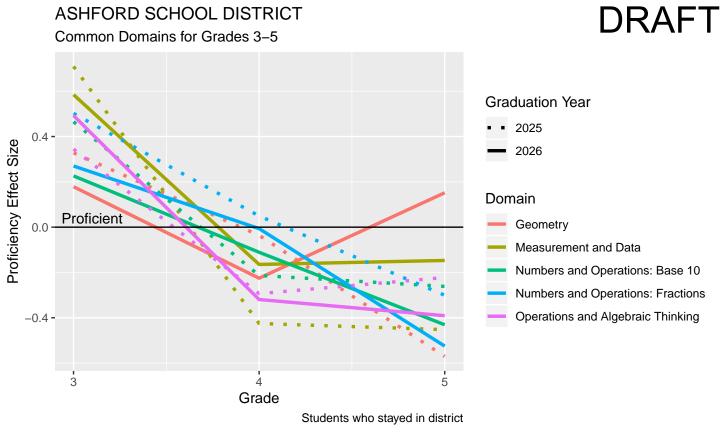
 Solve real–life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- Use random sampling to draw inference about a population.

Grade 8 Target Performance



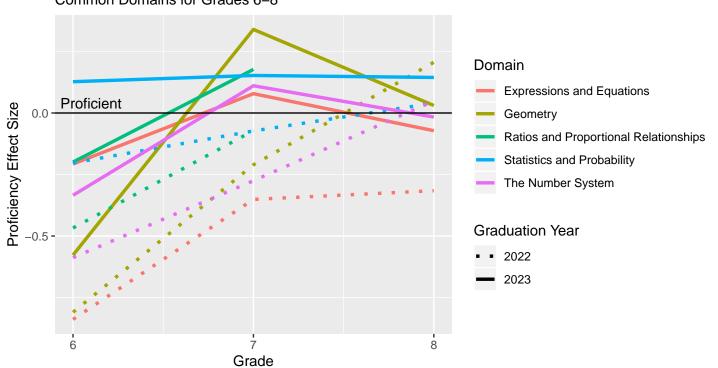


- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real—world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and intege exponents.



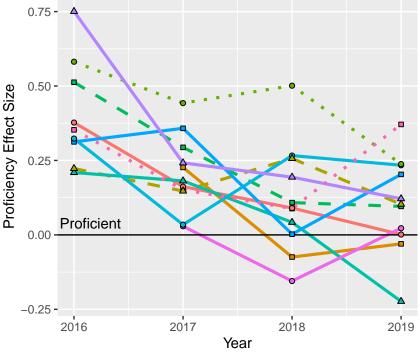
ASHFORD SCHOOL DISTRICT Common Domains for Grades 6–8





Students who stayed in district

Grade 3 Target Performance

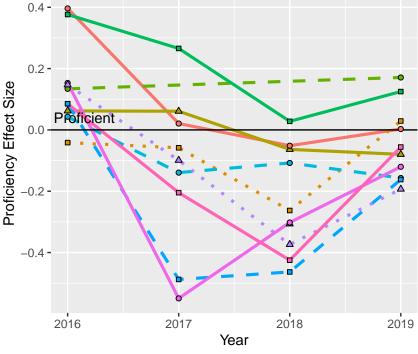


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DRAFT

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
- estimation of intervals of time, liquid
- volumes, and masses of objects. Solve problems involving the four operations, and identify and explain
- patterns in arithmetic. Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division. Use place value understanding and
- properties of arithmetic to perform multi-digit arithmetic.

Grade 4 Target Performance



solid = Major, dashed = Supporting, dotted = Additional

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Target

Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.

Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

Extend understanding of fraction equivalence and ordering.
Gain familiarity with factors and

multiples.
Generalize place value understanding for multi-digit whole numbers.

Generate and analyze patterns.

 Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

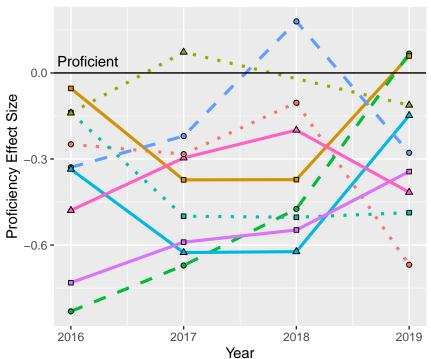
understand concepts of angle and measure angles.

Understand decimal notation for fractions, and compare decimal fractions.

 Use place value understanding and properties of operations to perform multi-digit arithmetic.

Use the four operations with whole numbers to solve problems.

Grade 5 Target Performance



Target

Apply and extend previous understandings of multiplication and division to

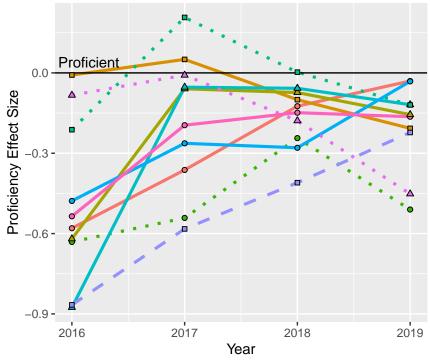
DRAFT

- multiply and divide fractions.

 Classify two-dimensional figures into
- categories based on their properties.
 Convert like measurement units within a
- given measurement system.

 Graph points on the coordinate plane
- to solve real–world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance

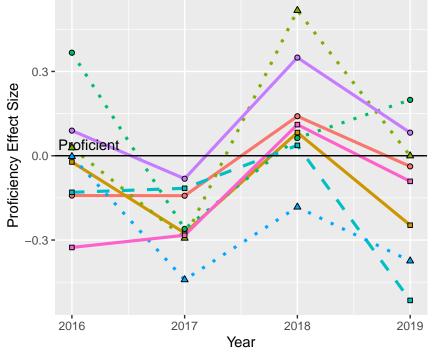


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Target

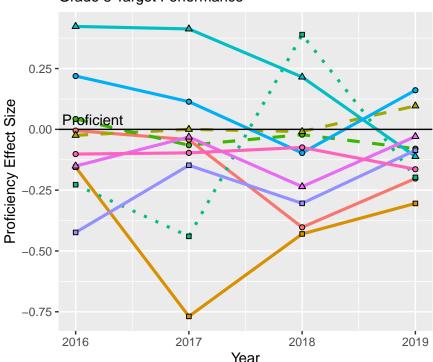
- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi–digit
 numbers and find common factors and
- multiples.
 Develop understanding of statistical variability.
- Reason about and solve one–variable equations and inequalities. Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real—world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.





- Analyze proportional relationships and use them to solve real-world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add,
- subtract, multiply, and divide rational numbers.
- Draw, construct and describe geometrical figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical problems involving angle measure, area, surface area, and volume.
- Solve real-life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- about a population.

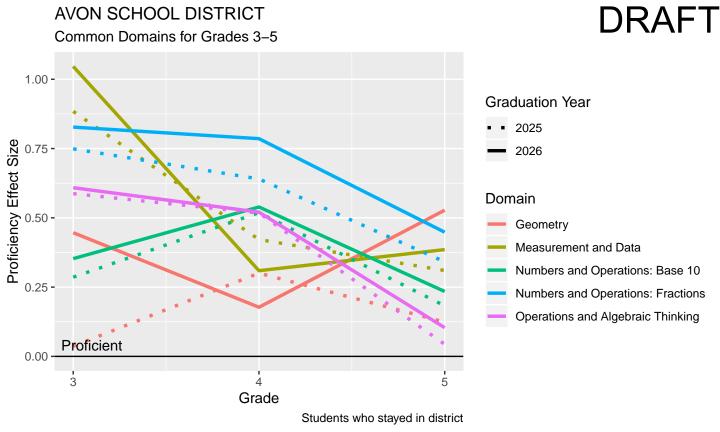
Grade 8 Target Performance

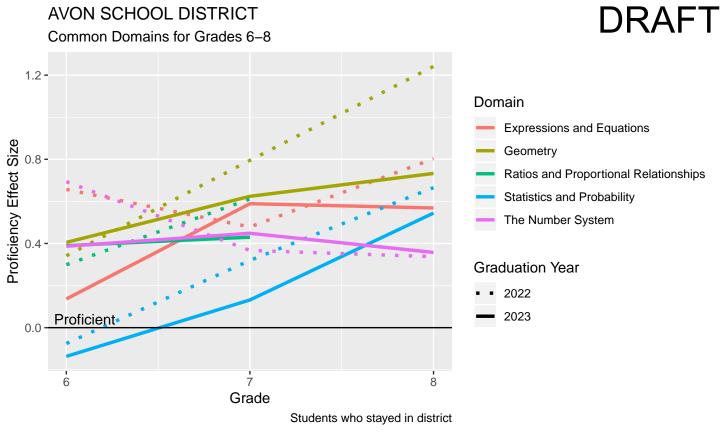


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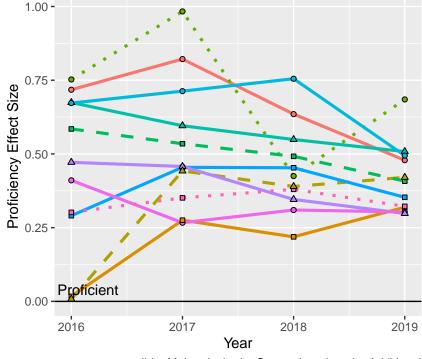
Target

- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
 - Know that there are numbers that are not rational, and approximate them by rational numbers.
 - Solve real—world and mathematical problems involving volume of cylinders, cones and spheres.
 - Understand and apply the Pythagorean theorem.
 - Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and intege exponents.







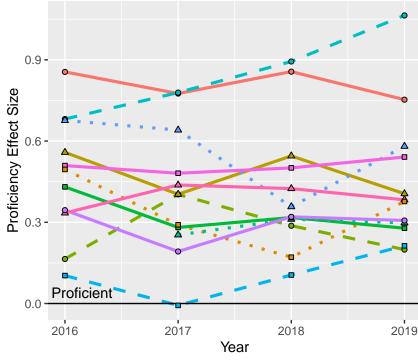


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- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
- estimation of intervals of time, liquid
- volumes, and masses of objects. Solve problems involving the four operations, and identify and explain
- patterns in arithmetic. Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi-digit arithmetic.

Grade 4 Target Performance



solid = Major, dashed = Supporting, dotted = Additional

Target

DRAFT

Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.

Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

Extend understanding of fraction equivalence and ordering. Gain familiarity with factors and

multiples.

Generalize place value understanding for multi-digit whole numbers.

Generate and analyze patterns.

Represent and interpret data.

Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

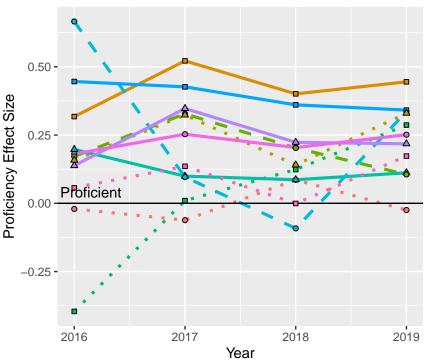
understand concepts of angle and measure angles. Understand decimal notation for

fractions, and compare decimal fractions.

Use place value understanding and properties of operations to perform multi-digit arithmetic.
Use the four operations with whole

numbers to solve problems.

Grade 5 Target Performance

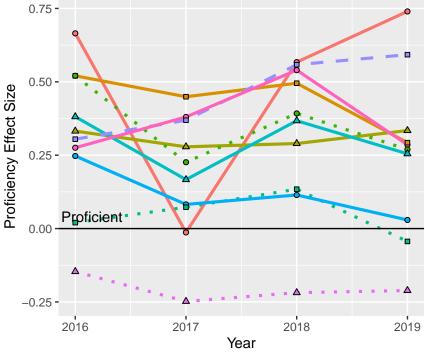


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- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two-dimensional figures into
- categories based on their properties.
 Convert like measurement units within a given measurement system.
- Graph points on the coordinate plane to solve real-world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance

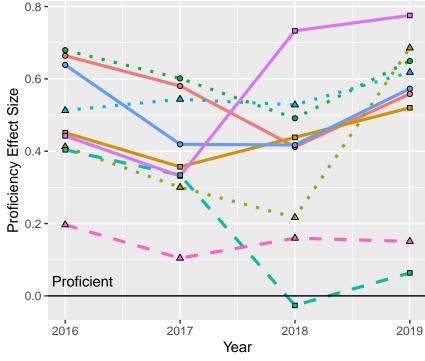


DRAFT

Target

- Apply and extend previous understandings of arithmetic to algebraic expressions. Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi–digit
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one–variable equations and inequalities. Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real–world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance

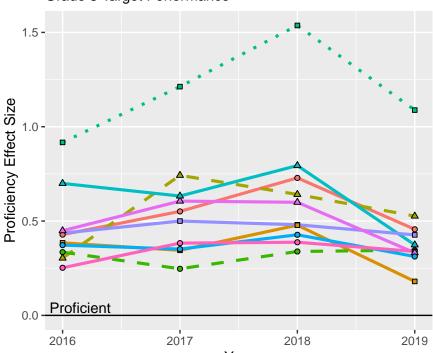


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- Analyze proportional relationships and use them to solve real-world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add,
- subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical problems involving angle measure, area,
- surface area, and volume. Solve real-life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- about a population.

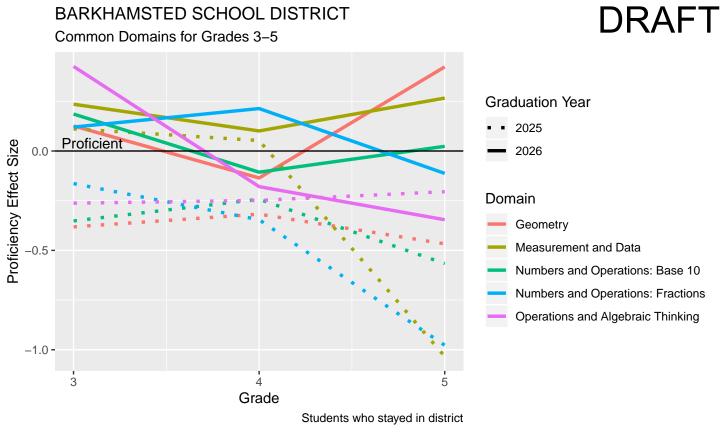
Grade 8 Target Performance



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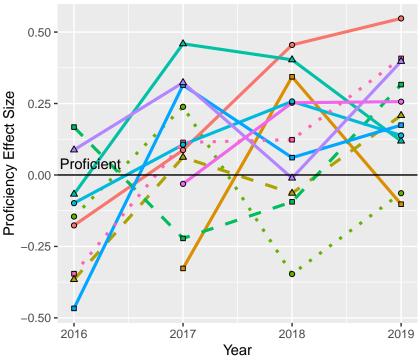
DRAFT

- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real–world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and integer exponents.



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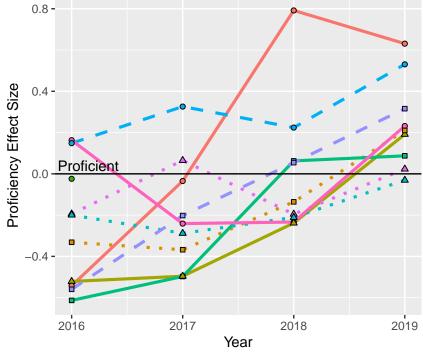




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- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- A Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division.
- multiplication and division.
 Solve problems involving measurement and estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four
- operations, and identify and explain patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi-digit arithmetic.

Grade 4 Target Performance



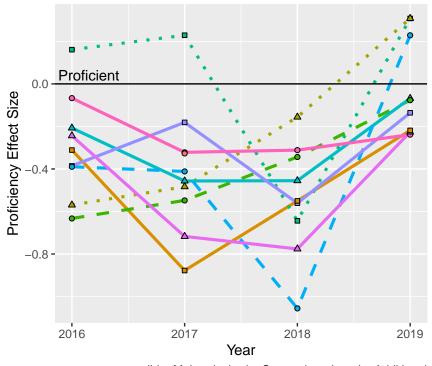
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DRAFT

- Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.
- Draw and identify lines and angles, and classify shapes by properties of their lines and angles.
- Extend understanding of fraction equivalence and ordering.
 Gain familiarity with factors and
- multiples.
 Generalize place value understanding for
- multi-digit whole numbers.
 Solve problems involving measurement and conversion of measurements from a larger
- unit to a smaller unit.
 understand concepts of angle and measure angles.
- Understand decimal notation for fractions, and compare decimal fractions.
- Use place value understanding and properties of operations to perform multi–digit arithmetic.
 Use the four operations with whole
- Use the four operations with whole numbers to solve problems.

Grade 5 Target Performance





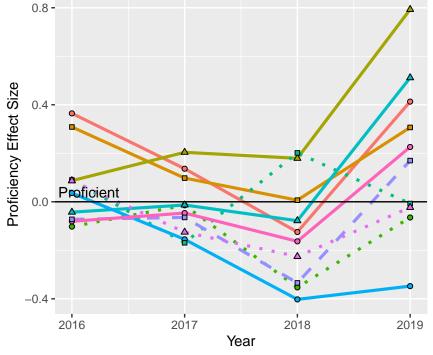
Target

- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to multiply and divide fractions.
- Classify two–dimensional figures into categories based on their properties.
- Convert like measurement units within a given measurement system.
- Graph points on the coordinate plane to solve real–world and mathematical
- problems.

 Perform operations with multi–digit

 whole numbers and with decimals to
- whole numbers and with decimals to hundredths.
 Understand concepts of volume and
- relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
 - Write and interpret numerical expressions.

Grade 6 Target Performance

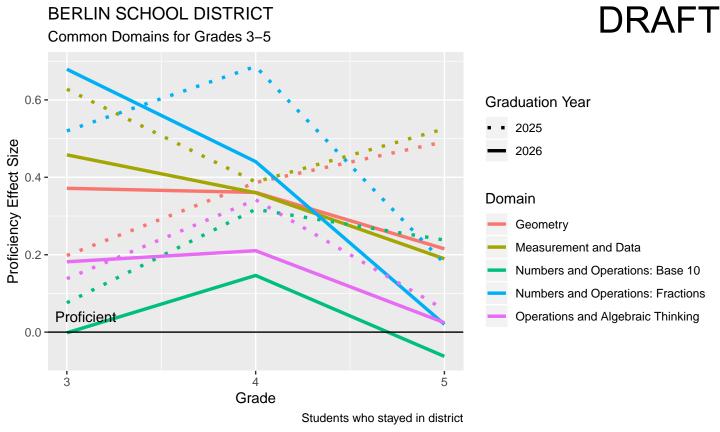


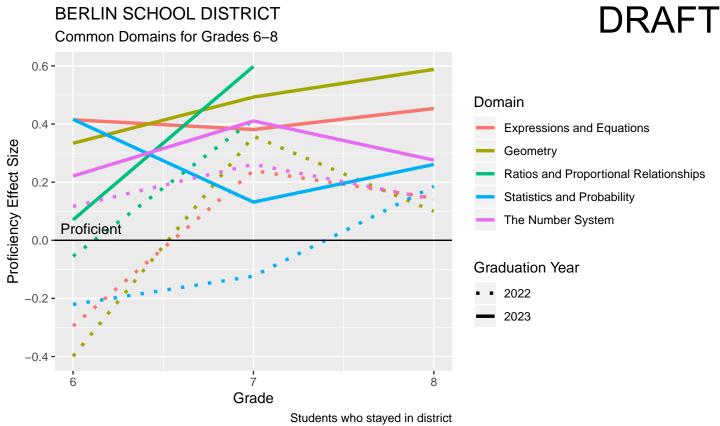
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DRAFT

- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi–digit
 numbers and find common factors and
- multiples.

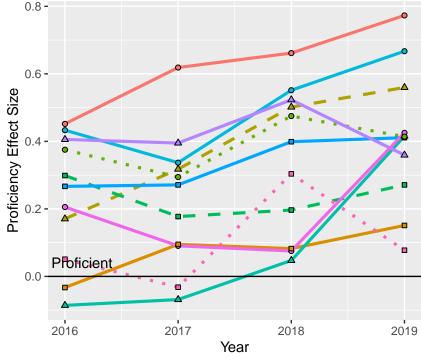
 Develop understanding of statistical
- variability.
 Reason about and solve one–variable
- equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real–world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.





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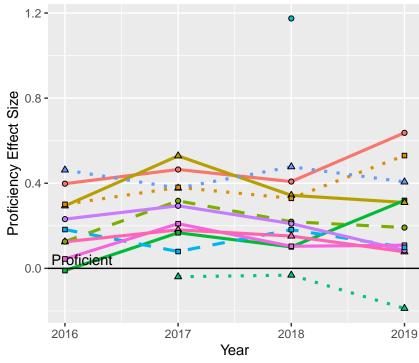
Target

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
- estimation of intervals of time, liquid
- volumes, and masses of objects. Solve problems involving the four operations, and identify and explain
- Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division. Use place value understanding and

patterns in arithmetic.

properties of arithmetic to perform multi-digit arithmetic.

Grade 4 Target Performance



solid = Major, dashed = Supporting, dotted = Additional

Target

DRAFT

Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.

Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

Extend understanding of fraction equivalence and ordering. Gain familiarity with factors and

multiples.

Generalize place value understanding for multi-digit whole numbers.

Generate and analyze patterns.

Represent and interpret data.

Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

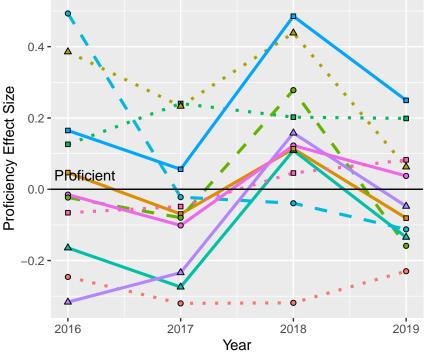
understand concepts of angle and measure angles. Understand decimal notation for

fractions, and compare decimal fractions.

Use place value understanding and properties of operations to perform multi-digit arithmetic.
Use the four operations with whole

numbers to solve problems.

Grade 5 Target Performance



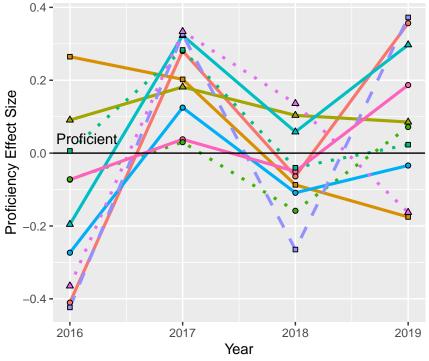
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DRAFT

- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two–dimensional figures into
 - categories based on their properties.
 Convert like measurement units within a
- given measurement system.

 Graph points on the coordinate plane
- to solve real-world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
 - Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance

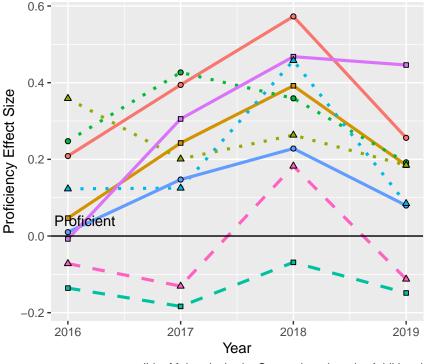


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DRAFT

- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi-digit
 numbers and find common factors and
- multiples.
 Develop understanding of statistical variability.
- Reason about and solve one-variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real—world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance



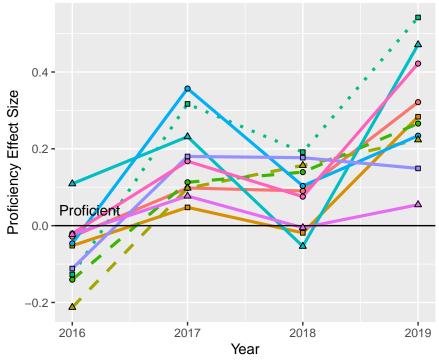
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DRAFT

- Analyze proportional relationships and use them to solve real–world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add,
- of operations with fractions to add, subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical problems involving angle measure, area,
- problems involving angle measure, area, surface area, and volume.
 Solve real-life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- Use random sampling to draw inference about a population.

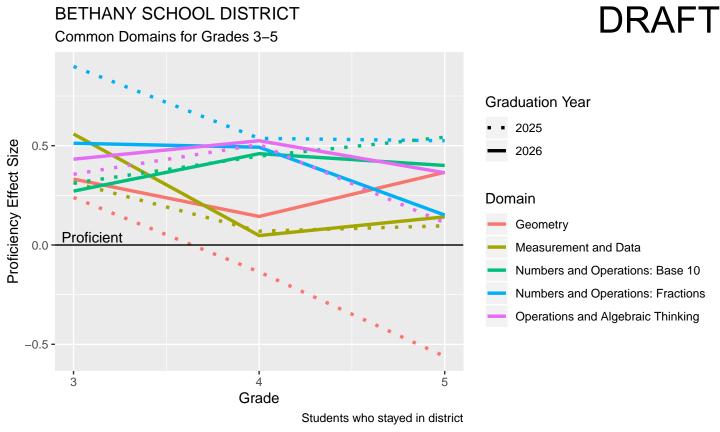
Grade 8 Target Performance





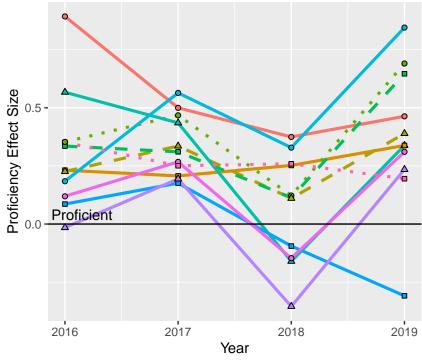
Target

- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real—world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and integer exponents.



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Grade 3 Target Performance

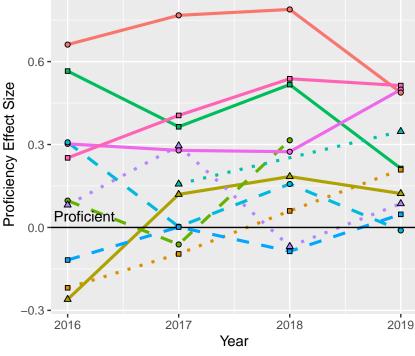


solid = Major, dashed = Supporting, dotted = Additional

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
- estimation of intervals of time, liquid
- volumes, and masses of objects. Solve problems involving the four operations, and identify and explain
- patterns in arithmetic. Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi-digit arithmetic.

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Grade 4 Target Performance

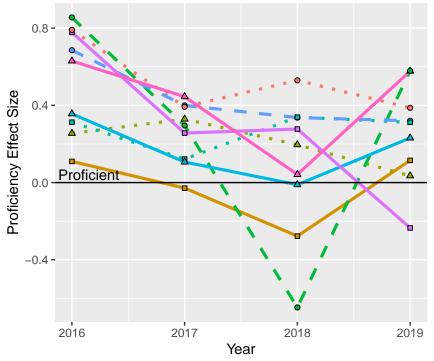


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- Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.
- Draw and identify lines and angles, and classify shapes by properties of their lines and angles.
- Extend understanding of fraction equivalence and ordering.
 Gain familiarity with factors and
- multiples.
 Generalize place value understanding for multi–digit whole numbers.
- Generate and analyze patterns.
 - Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.
- understand concepts of angle and measure angles.
- Understand decimal notation for fractions, and compare decimal fractions.
 Use place value understanding and
- o properties of operations to perform multi-digit arithmetic.

 Use the four operations with whole
- use the four operations with whole numbers to solve problems.

Grade 5 Target Performance

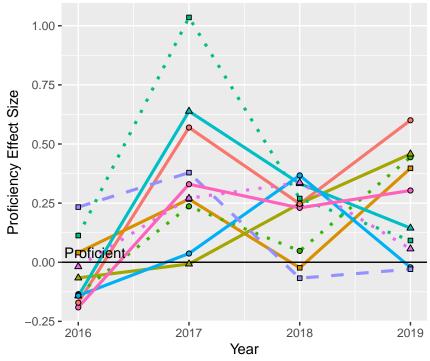


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- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
- Classify two-dimensional figures into categories based on their properties.
 Convert like measurement units within a
- given measurement system.
 Graph points on the coordinate plane
- to solve real–world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

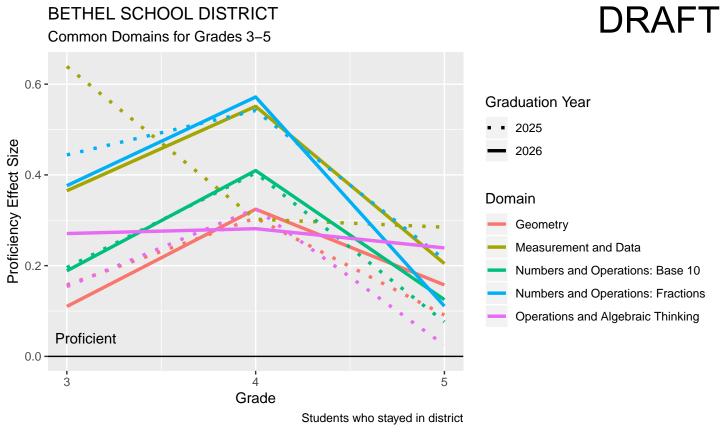
Grade 6 Target Performance

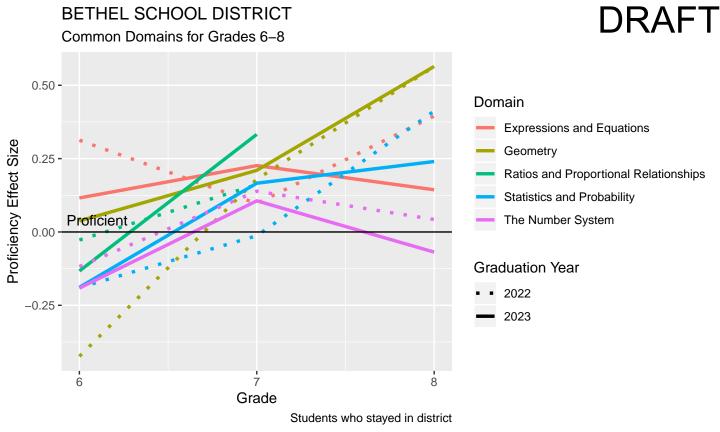


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Target

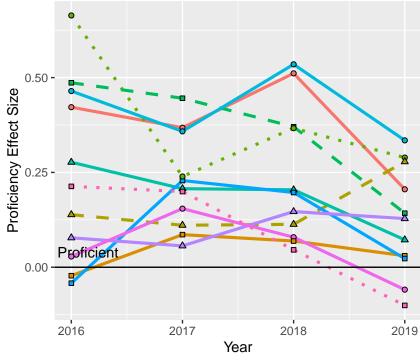
- Apply and extend previous understandings of arithmetic to algebraic expressions. Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi–digit
 numbers and find common factors and
- multiples.
 Develop understanding of statistical variability.
- Reason about and solve one-variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real—world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.





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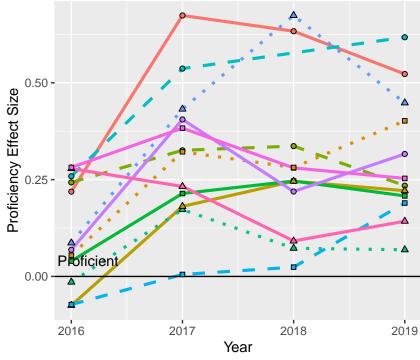




Target

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division.
 Solve problems involving measurement and
- Solve problems involving measurement and estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four
- operations, and identify and explain patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi–digit arithmetic.

Grade 4 Target Performance



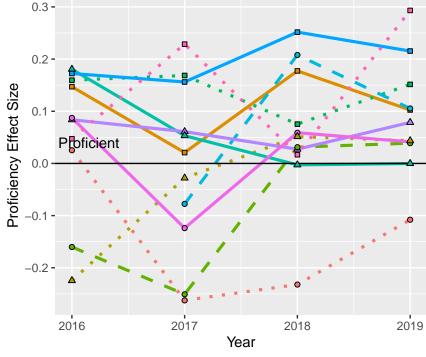
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Target

DRAFT

- Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.
- Draw and identify lines and angles, and classify shapes by properties of their lines and angles.
- Extend understanding of fraction equivalence and ordering. Gain familiarity with factors and multiples.
- Generalize place value understanding for multi-digit whole numbers.
- Generate and analyze patterns.
- Represent and interpret data.
- Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.
- understand concepts of angle and measure angles. Understand decimal notation for
- fractions, and compare decimal fractions.
- Use place value understanding and properties of operations to perform multi-digit arithmetic.
 Use the four operations with whole
- numbers to solve problems.

Grade 5 Target Performance

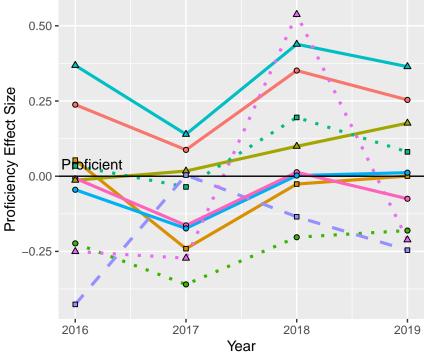


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- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two–dimensional figures into
- categories based on their properties.
 Convert like measurement units within a
- given measurement system.
 Graph points on the coordinate plane
- to solve real–world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance

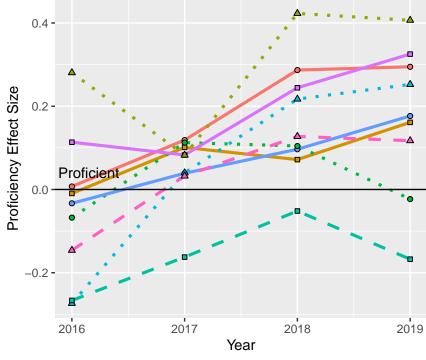


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Target

- Apply and extend previous understandings of arithmetic to algebraic expressions. Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi-digit
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one-variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real—world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance

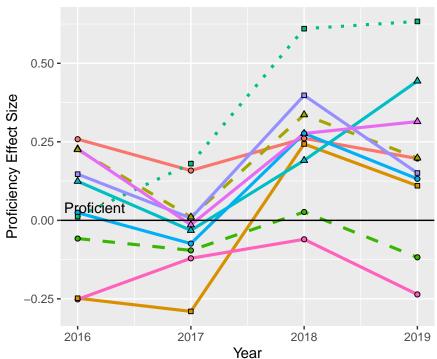


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- Analyze proportional relationships and use them to solve real-world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add,
- subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations. Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical problems involving angle measure, area, surface area, and volume.
- Solve real-life and mathematical problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- about a population.

Grade 8 Target Performance

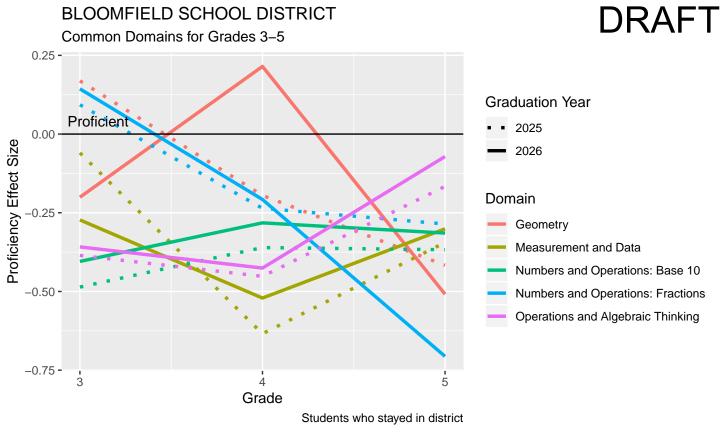


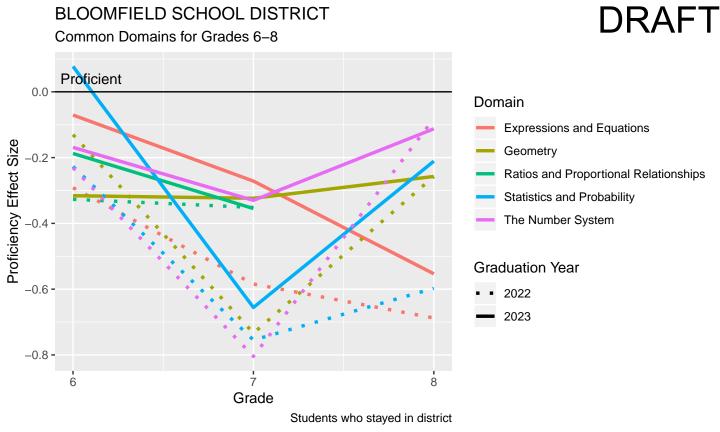
Target

Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.

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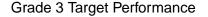
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real–world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and intege exponents.

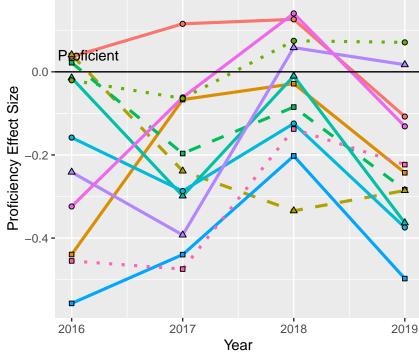




BLOOMFIELD SCHOOL DISTRICT

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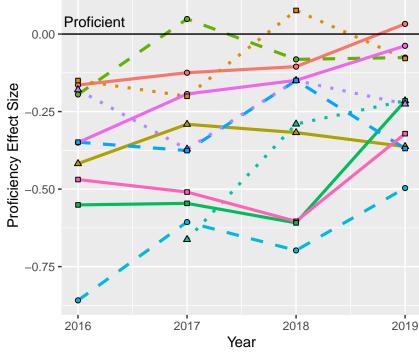


solid = Major, dashed = Supporting, dotted = Additional

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division.
 Solve problems involving measurement and
- solve problems involving measurement and estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four
- operations, and identify and explain patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
 Use place value understanding and
- properties of arithmetic to perform multi–digit arithmetic.

BLOOMFIELD SCHOOL DISTRICT

Grade 4 Target Performance



Target

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Build fractions fr

Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.

 Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

Extend understanding of fraction equivalence and ordering.
Gain familiarity with factors and

multiples.
Generalize place value understanding for

multi-digit whole numbers.

Generate and analyze patterns.

Solve problems involving measurement and conversion of measurements from a larger

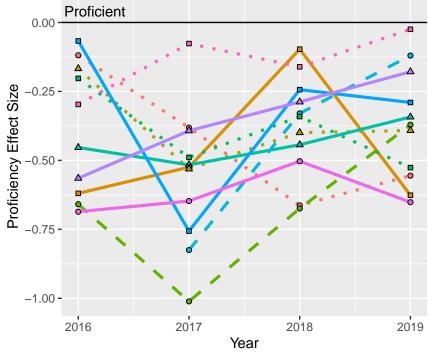
unit to a smaller unit.
understand concepts of angle and measure
angles.

Understand decimal notation for fractions, and compare decimal fractions.

Use place value understanding and properties of operations to perform multi-digit arithmetic.

Use the four operations with whole numbers to solve problems.

Grade 5 Target Performance

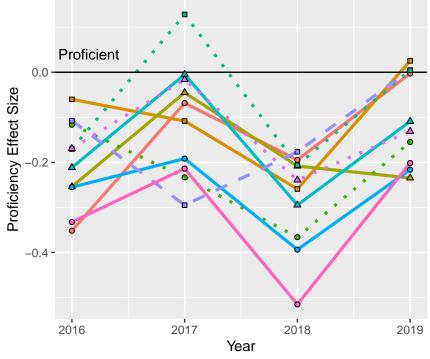


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DRAFT

- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two–dimensional figures into
- categories based on their properties.
 Convert like measurement units within a
- given measurement system.
 Graph points on the coordinate plane
- to solve real-world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance

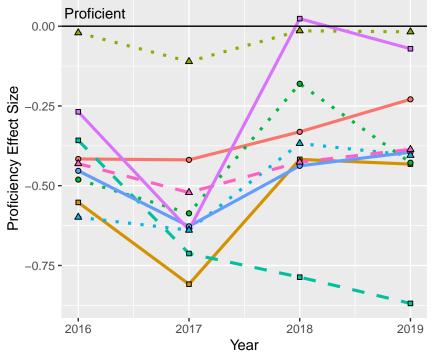


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DRAFT

- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi-digit
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one–variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real–world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance



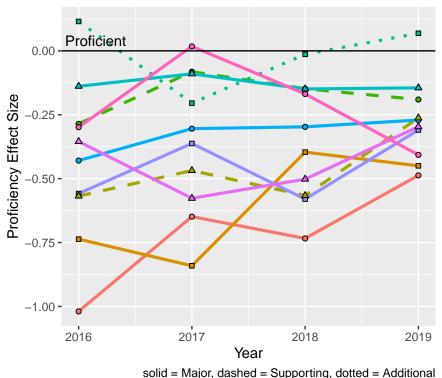
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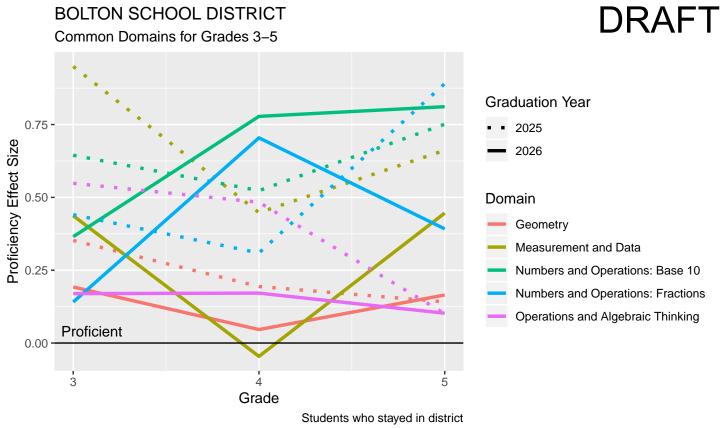
- Analyze proportional relationships and use them to solve real–world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add,
- of operations with fractions to add, subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical problems involving angle measure, area,
- surface area, and volume.
 Solve real–life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- Use random sampling to draw inference about a population.

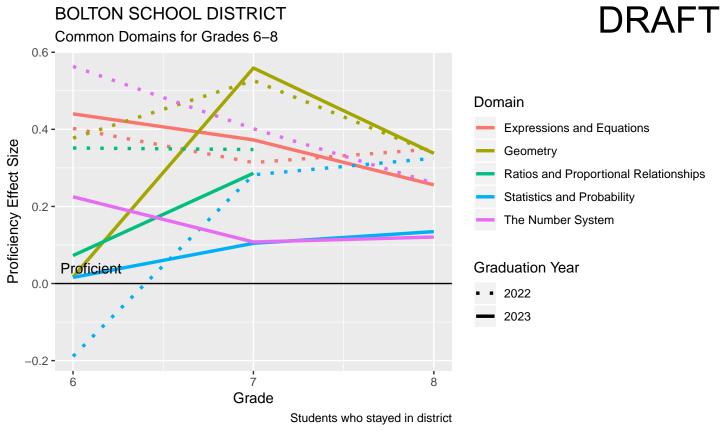
Grade 8 Target Performance



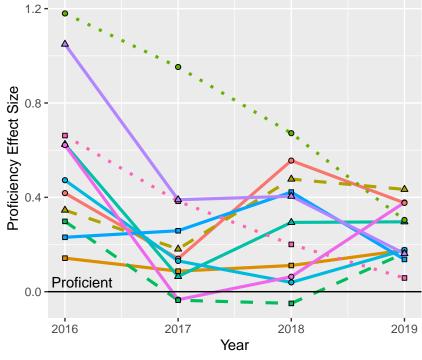


- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real–world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and integer exponents.





Grade 3 Target Performance



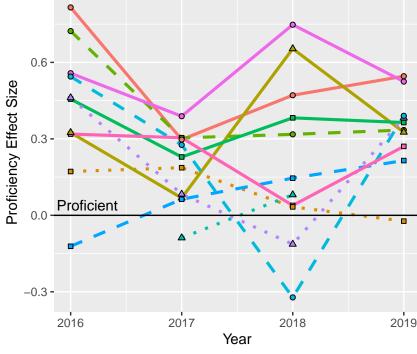
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DRAFT

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
- Solve problems involving measurement and estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four operations, and identify and explain
- patterns in arithmetic.
 Understand concepts of area and relate area to multiplication and to addition.
 Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi-digit arithmetic.

DRAFT





Target

Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.

Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

Extend understanding of fraction equivalence and ordering.
Gain familiarity with factors and

multiples.
Generalize place value understanding for multi-digit whole numbers.

Generate and analyze patterns.

Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

understand concepts of angle and measure angles.

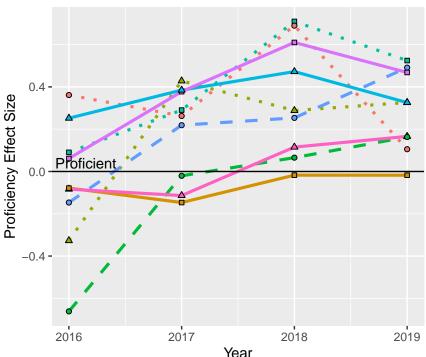
Understand decimal notation for fractions, and compare decimal fractions.
Use place value understanding and

o properties of operations to perform multi-digit arithmetic.

Use the four operations with whole numbers to solve problems.

solid = Major, dashed = Supporting, dotted = Additional

Grade 5 Target Performance



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Target

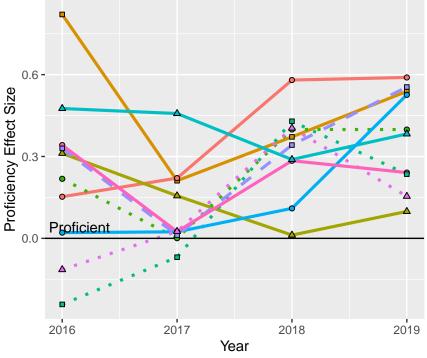
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.

 Classify two-dimensional figures into
- categories based on their properties.
 Convert like measurement units within a
- given measurement system.

 Graph points on the coordinate plane
- to solve real–world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

solid = Major, dashed = Supporting, dotted = Additional

Grade 6 Target Performance



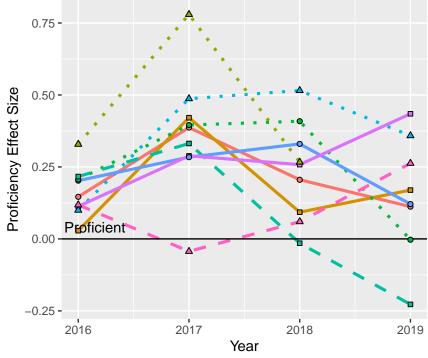
DRAFT

Target

- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational numbers.
- Compute fluently with multi-digit numbers and find common factors and
- multiples.
 Develop understanding of statistical variability.
- Reason about and solve one–variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real–world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

solid = Major, dashed = Supporting, dotted = Additional

Grade 7 Target Performance



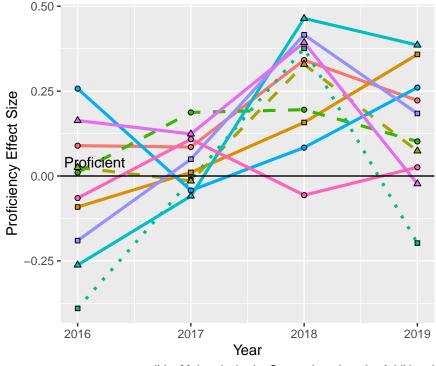
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DRAFT

- Analyze proportional relationships and use them to solve real–world and mathematical problems.
 Apply and extend previous understandings
- of operations with fractions to add, subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical problems involving angle measure, area, surface area, and volume.
- Solve real-life and mathematical problems using numerical and algebraic
- expressions and equations.
 Use properties of operations to generate
- equivalent expressions.
 Use random sampling to draw inferences about a population.

Grade 8 Target Performance

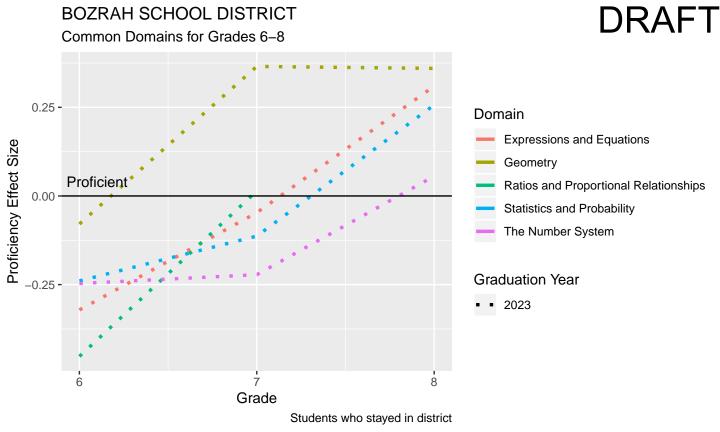




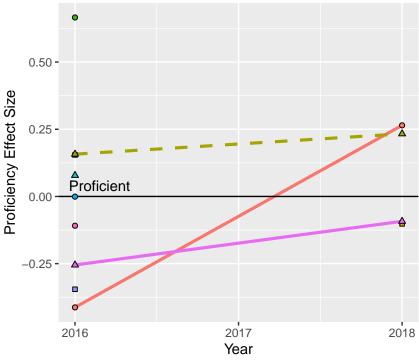
Target

- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real—world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and intege exponents.

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Grade 3 Target Performance

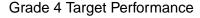


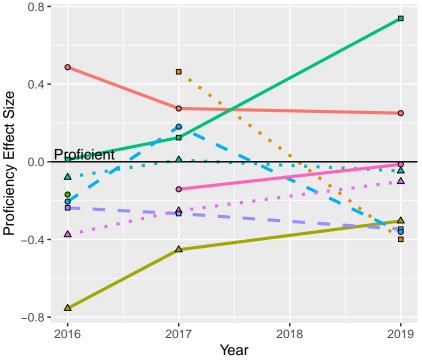
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DRAFT

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
 - Represent and solve problems involving multiplication and division.
- Solve problems involving measurement and estimation of intervals of time, liquid volumes, and masses of objects.
 Solve problems involving the four
- operations, and identify and explain patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition.
 Use place value understanding and
- properties of arithmetic to perform multi–digit arithmetic.

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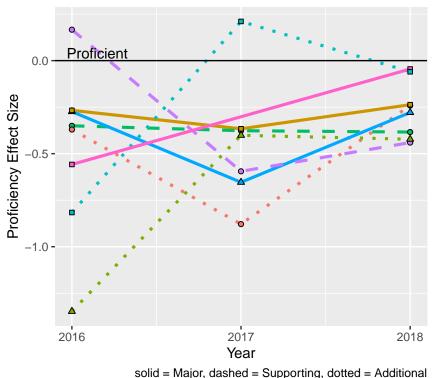




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- Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.
- Draw and identify lines and angles, and classify shapes by properties of their lines and angles.
- Extend understanding of fraction equivalence and ordering.
 Gain familiarity with factors and
- multiples.
 Generalize place value understanding for
- multi-digit whole numbers.
 Solve problems involving measurement and conversion of measurements from a larger
- unit to a smaller unit.
 understand concepts of angle and measure angles.
- Understand decimal notation for fractions, and compare decimal fractions.
- Use place value understanding and properties of operations to perform multi–digit arithmetic.
 Use the four operations with whole
- Use the four operations with whole numbers to solve problems.

Grade 5 Target Performance



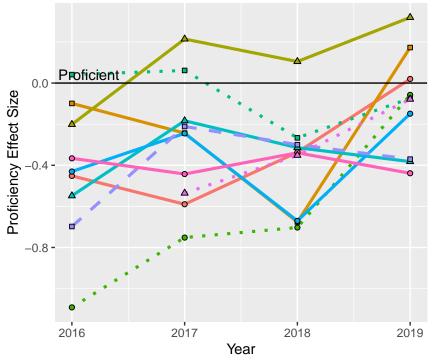
DRAFT

- Apply and extend previous understandings of multiplication and division to multiply and divide fractions.
- Classify two-dimensional figures into categories based on their properties. Graph points on the coordinate plane
- to solve real-world and mathematical problems.
- Perform operations with multi–digit

 whole numbers and with decimals to
- hundredths.
 Understand concepts of volume and relate volume to multiplication and to
- relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

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Grade 6 Target Performance



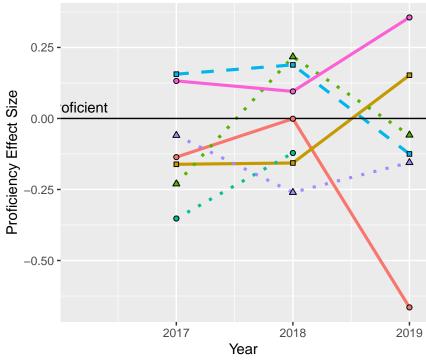
Target

- Apply and extend previous understandings of arithmetic to algebraic expressions.

 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi-digit
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one–variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real-world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

solid = Major, dashed = Supporting, dotted = Additional

Grade 7 Target Performance



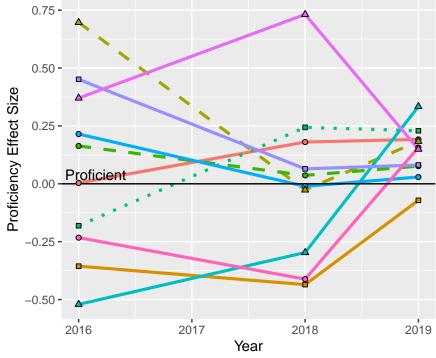
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DRAFT

- Analyze proportional relationships and use them to solve real–world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.
- Draw, construct and describe geometrical figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real–life and mathematical problems involving angle measure, area, surface area, and volume.

 Solve real–life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.

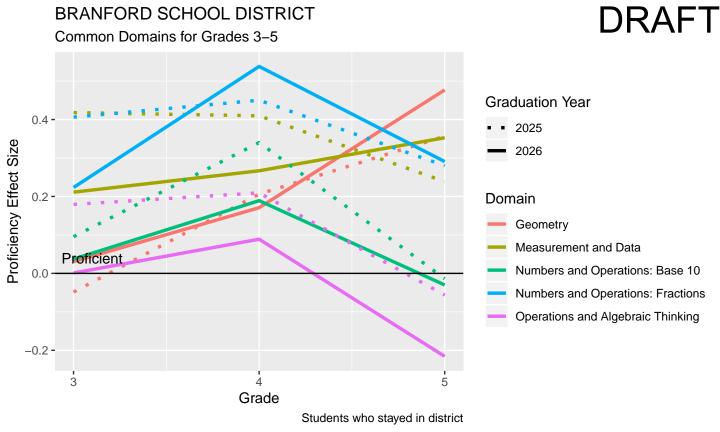
Grade 8 Target Performance

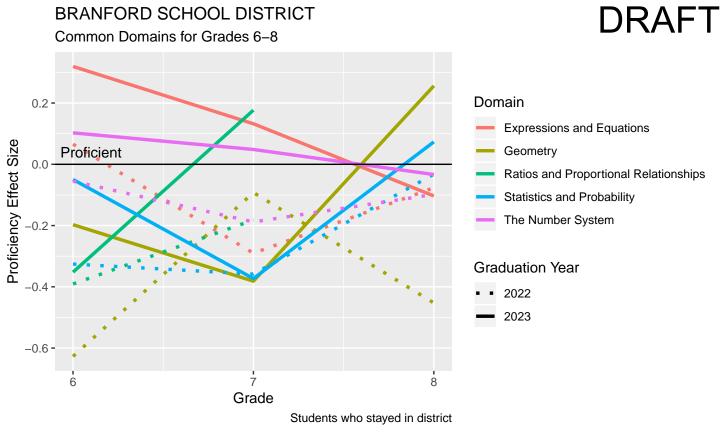


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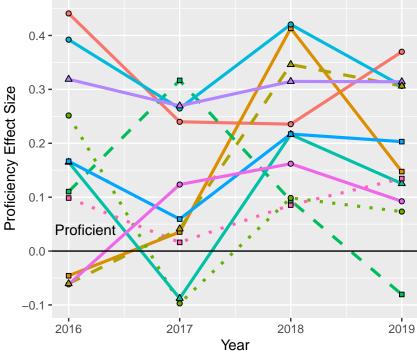
- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real—world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
- Work with radicals and integer exponents.





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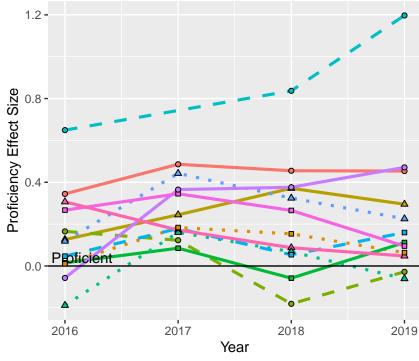




solid = Major, dashed = Supporting, dotted = Additional

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
 - Solve problems involving measurement and estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four
 operations, and identify and explain
- patterns in arithmetic.
 Understand concepts of area and relate area to multiplication and to addition.
- Understand properties of multiplication and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi–digit arithmetic.

Grade 4 Target Performance



solid = Major, dashed = Supporting, dotted = Additional

Target

DRAFT

Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.

Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

Extend understanding of fraction equivalence and ordering. Gain familiarity with factors and

multiples.

Generalize place value understanding for multi-digit whole numbers.

Generate and analyze patterns.

Represent and interpret data.

Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

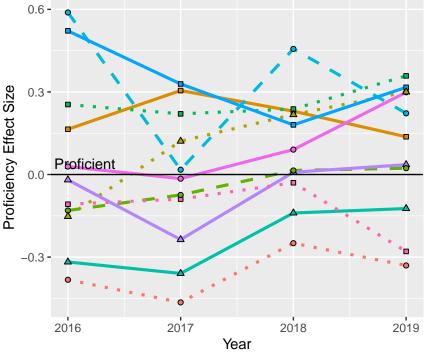
understand concepts of angle and measure angles. Understand decimal notation for

fractions, and compare decimal fractions.

Use place value understanding and properties of operations to perform multi-digit arithmetic.
Use the four operations with whole

numbers to solve problems.

Grade 5 Target Performance

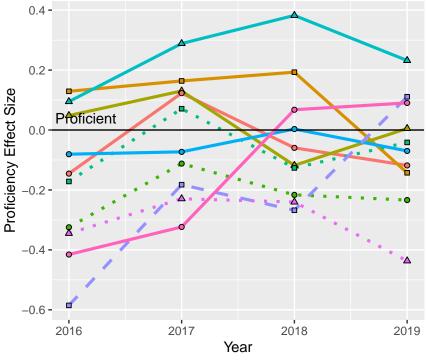


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DRAFT

- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two–dimensional figures into
 - categories based on their properties.
 Convert like measurement units within a
- given measurement system.
 Graph points on the coordinate plane
- to solve real–world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance



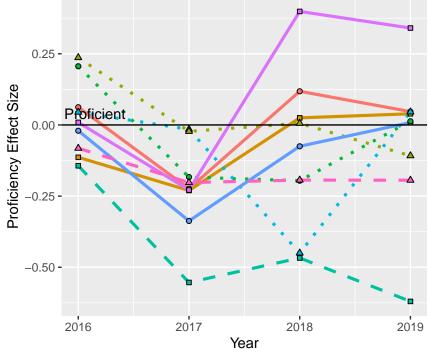
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DRAFT

- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi–digit
 numbers and find common factors and
- multiples.

 Develop understanding of statistical variability.
- Reason about and solve one-variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real—world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance



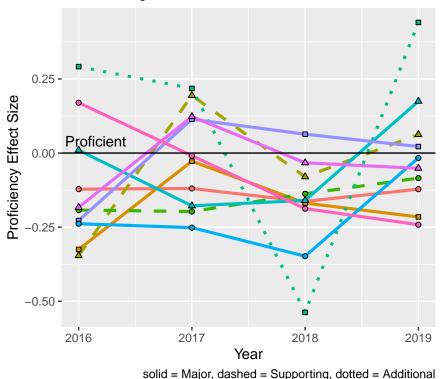
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DRAFT

- Analyze proportional relationships and use them to solve real-world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add,
- subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical problems involving angle measure, area, surface area, and volume.
- Solve real-life and mathematical problems using numerical and algebraic
- expressions and equations. Use properties of operations to generate
- equivalent expressions.
 Use random sampling to draw inferences
- about a population.

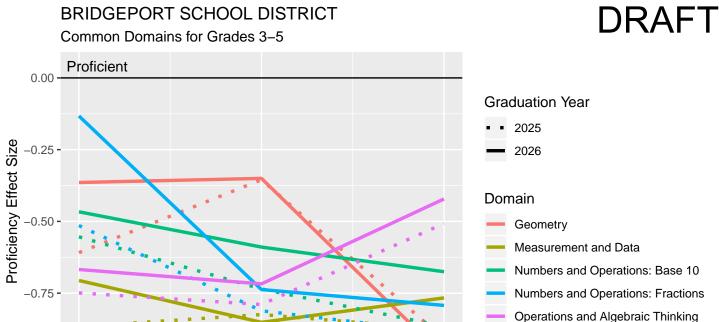
Grade 8 Target Performance





Target

- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
 - Solve real-world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and integer exponents.

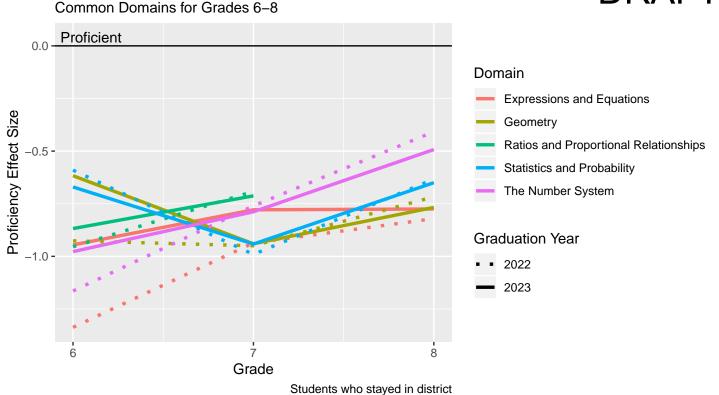


Students who stayed in district

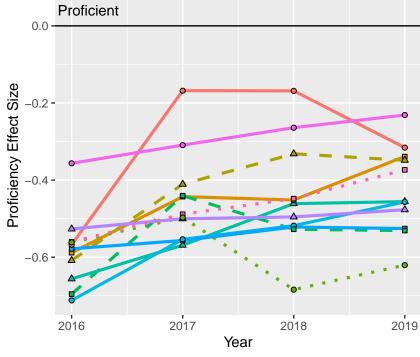
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Grade 3 Target Performance

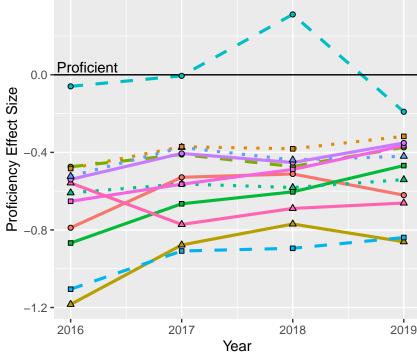


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DRAFT

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
- estimation of intervals of time, liquid
- volumes, and masses of objects. Solve problems involving the four operations, and identify and explain
- patterns in arithmetic. Understand concepts of area and relate
- area to multiplication and to addition. Understand properties of multiplication and the relationship between
- multiplication and division. Use place value understanding and properties of arithmetic to perform multi-digit arithmetic.

Grade 4 Target Performance



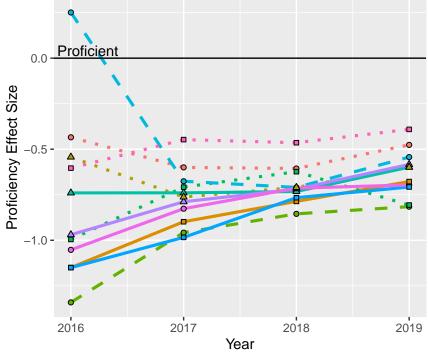
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Target

DRAFT

- Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.
- Draw and identify lines and angles, and classify shapes by properties of their
- lines and angles. Extend understanding of fraction equivalence and ordering. Gain familiarity with factors and
- multiples. Generalize place value understanding for
- multi-digit whole numbers.
- Generate and analyze patterns.
- Represent and interpret data.
- Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.
- understand concepts of angle and measure angles. Understand decimal notation for
- fractions, and compare decimal fractions. Use place value understanding and
- properties of operations to perform multi-digit arithmetic.
 Use the four operations with whole
- numbers to solve problems.

Grade 5 Target Performance

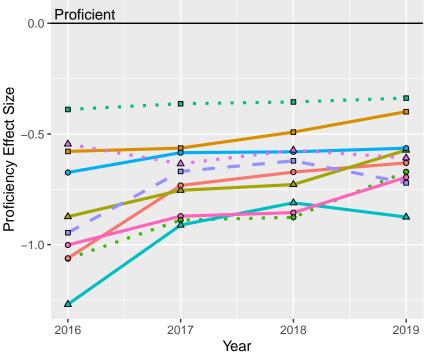


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DRAFT

- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two-dimensional figures into
- categories based on their properties.
 Convert like measurement units within a
- given measurement system.
 Graph points on the coordinate plane
- to solve real–world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance



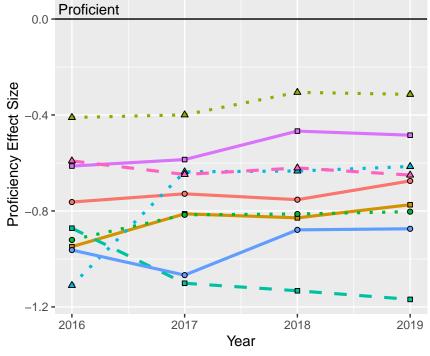
DRAFT

Target

- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi-digit
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one-variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real–world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

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Grade 7 Target Performance

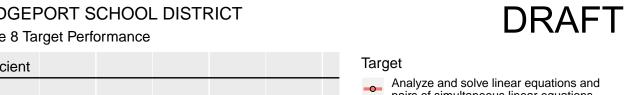


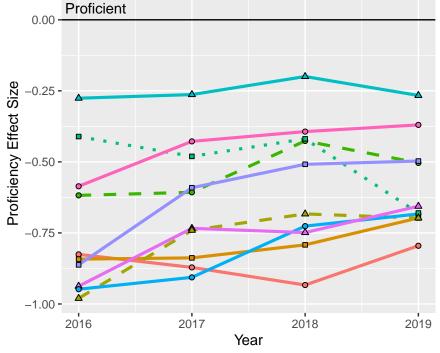
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DRAFT

- Analyze proportional relationships and use them to solve real—world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add,
- of operations with fractions to add, subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical problems involving angle measure, area, surface area, and volume.
- Solve real–life and mathematical problems using numerical and algebraic
- expressions and equations.
 Use properties of operations to generate
- equivalent expressions.
 Use random sampling to draw inferences about a population.

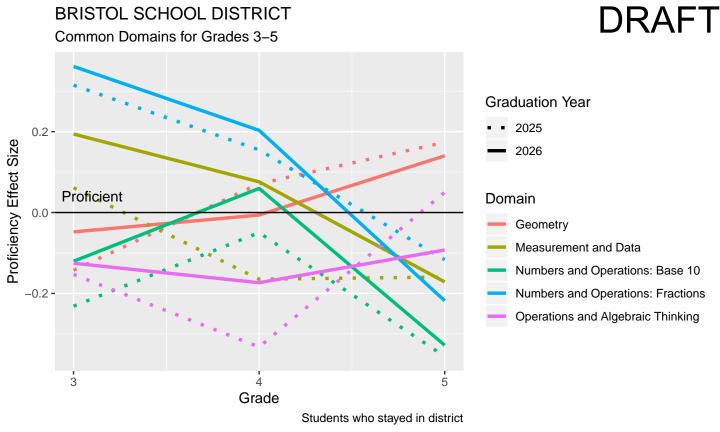
Grade 8 Target Performance





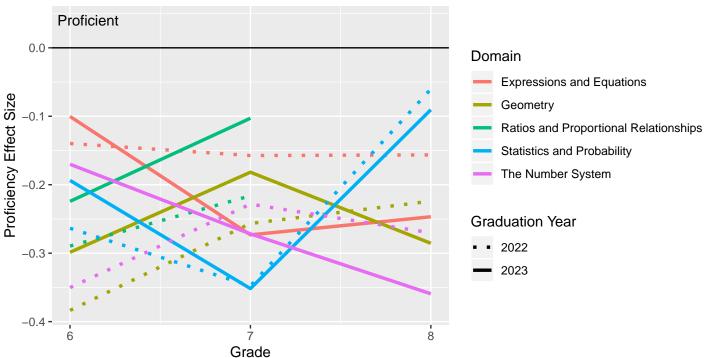
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- pairs of simultaneous linear equations. Functions: Define, evaluate, and compare
- functions. Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by
- rational numbers. Solve real-world and mathematical
- problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities. Work with radicals and integer
- exponents.



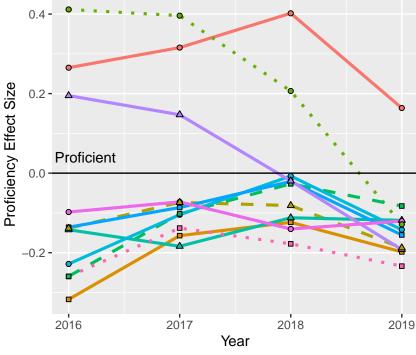
BRISTOL SCHOOL DISTRICT Common Domains for Grades 6–8





Students who stayed in district

Grade 3 Target Performance

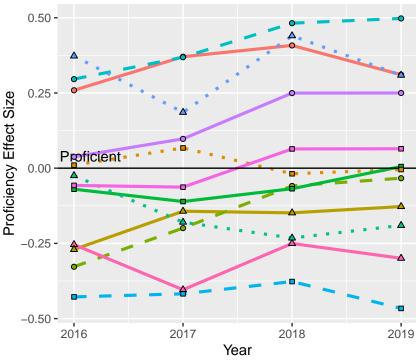


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DRAFT

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
- estimation of intervals of time, liquid
- volumes, and masses of objects. Solve problems involving the four operations, and identify and explain patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi-digit arithmetic.

Grade 4 Target Performance



solid = Major, dashed = Supporting, dotted = Additional

Target

DRAFT

Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.

Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

Extend understanding of fraction equivalence and ordering. Gain familiarity with factors and multiples.

Generalize place value understanding for multi-digit whole numbers.

Generate and analyze patterns.

Represent and interpret data.

Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

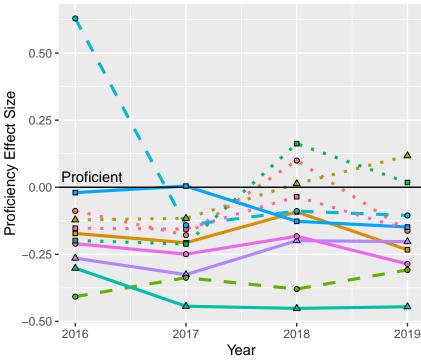
understand concepts of angle and measure angles. Understand decimal notation for

fractions, and compare decimal fractions.

Use place value understanding and properties of operations to perform multi-digit arithmetic.
Use the four operations with whole

numbers to solve problems.

Grade 5 Target Performance

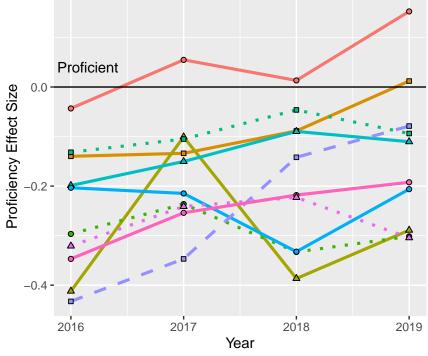


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DRAFT

- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions. Classify two-dimensional figures into
- categories based on their properties. Convert like measurement units within a
- given measurement system. Graph points on the coordinate plane
- to solve real-world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance

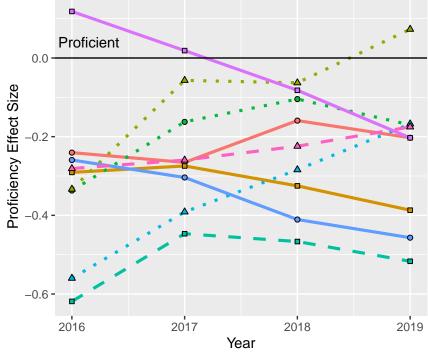


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DRAFT

- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi–digit
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one-variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real—world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance



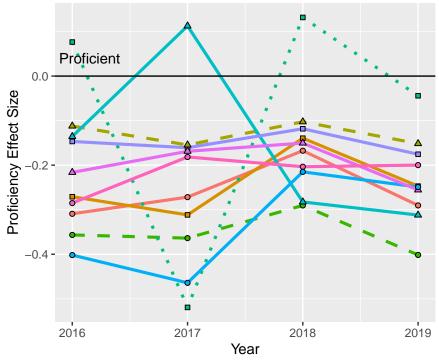
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DRAFT

- Analyze proportional relationships and use them to solve real-world and mathematical problems.
 - Apply and extend previous understandings of operations with fractions to add,
- subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations. Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical problems involving angle measure, area, surface area, and volume.
- Solve real-life and mathematical problems using numerical and algebraic
- expressions and equations. Use properties of operations to generate
- equivalent expressions.
 Use random sampling to draw inferences
- about a population.

Grade 8 Target Performance

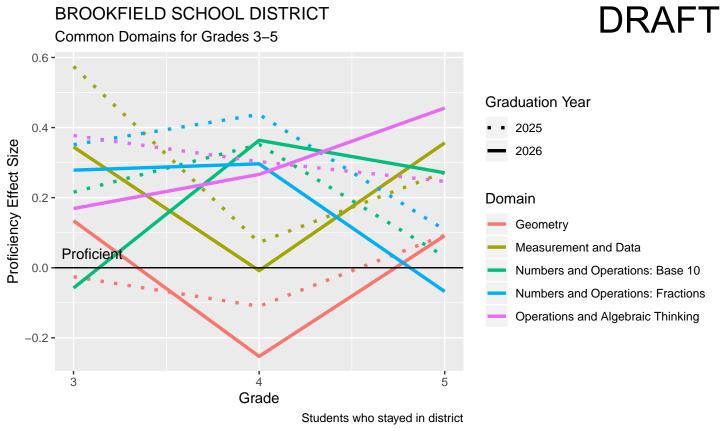




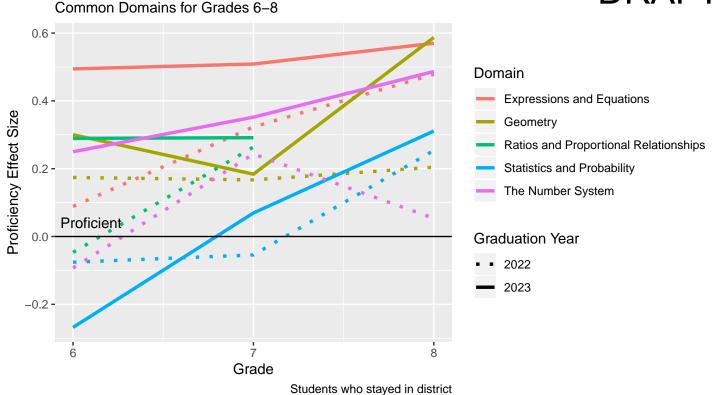
Target

- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real—world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and integer exponents.

solid = Major, dashed = Supporting, dotted = Additional

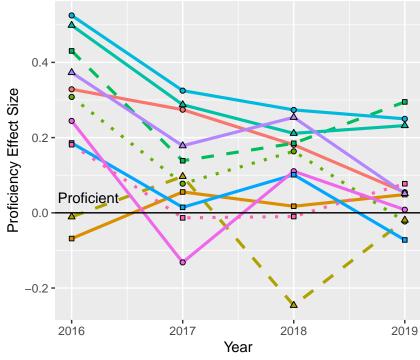


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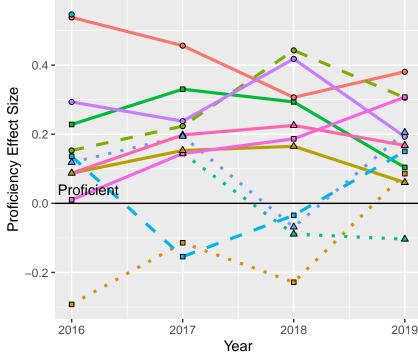




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- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division.
- multiplication and division.
 Solve problems involving measurement and estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four
 operations, and identify and explain
- patterns in arithmetic.
 Understand concepts of area and relate area to multiplication and to addition.
 Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi–digit arithmetic.

Grade 4 Target Performance

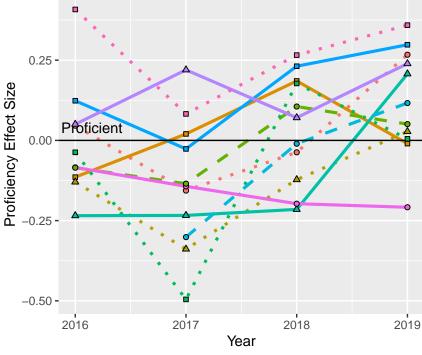


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- Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.
- Draw and identify lines and angles, and classify shapes by properties of their lines and angles.
- Extend understanding of fraction equivalence and ordering.
 Gain familiarity with factors and
- multiples.
 Generalize place value understanding for
- multi–digit whole numbers.
- Generate and analyze patterns.
- Represent and interpret data.
- Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.
- understand concepts of angle and measure angles.
 Understand decimal notation for
- fractions, and compare decimal fractions.
- Use place value understanding and properties of operations to perform multi-digit arithmetic.
 Use the four operations with whole
- Use the four operations with whole numbers to solve problems.

Grade 5 Target Performance

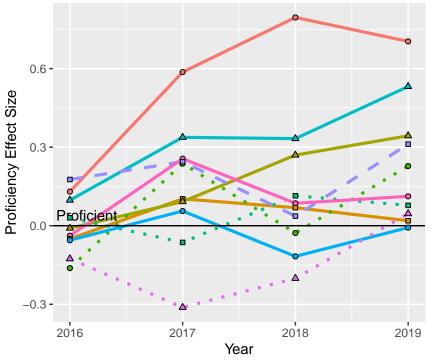


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- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two-dimensional figures into
- categories based on their properties.
 Convert like measurement units within a given measurement system.
- Graph points on the coordinate plane to solve real–world and mathematical
- to solve real—world and mathematical problems.
 Perform operations with multi-digit
- whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance



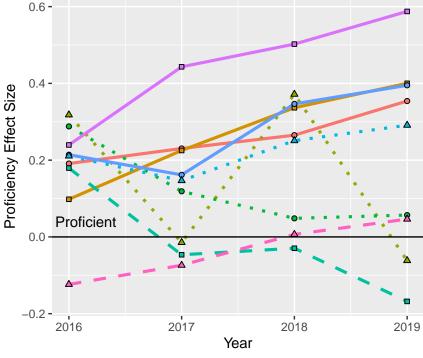
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- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi–digit
 numbers and find common factors and
- multiples.

 Develop understanding of statistical variability.
- Reason about and solve one–variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real—world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance



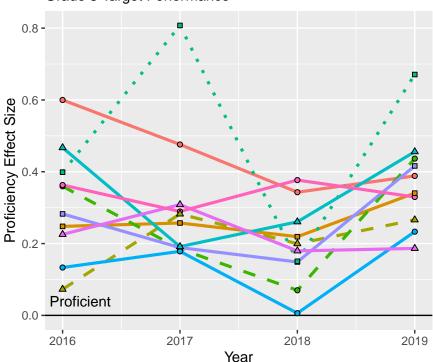
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Target

- Analyze proportional relationships and use them to solve real-world and mathematical problems.
- Apply and extend previous understandings
- of operations with fractions to add, subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations. Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical
- problems involving angle measure, area, surface area, and volume. Solve real-life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- about a population.

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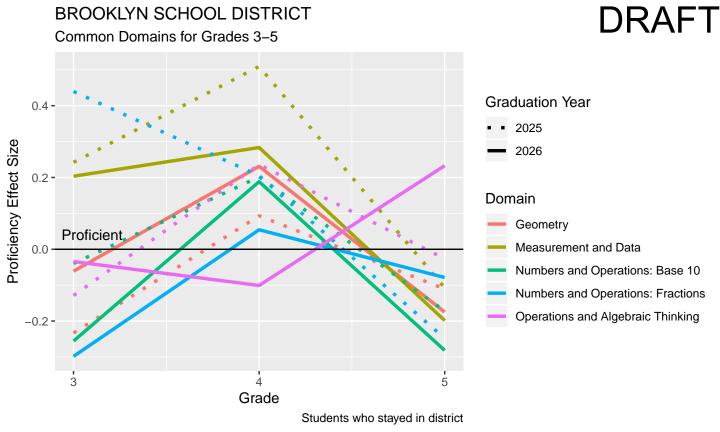
Grade 8 Target Performance

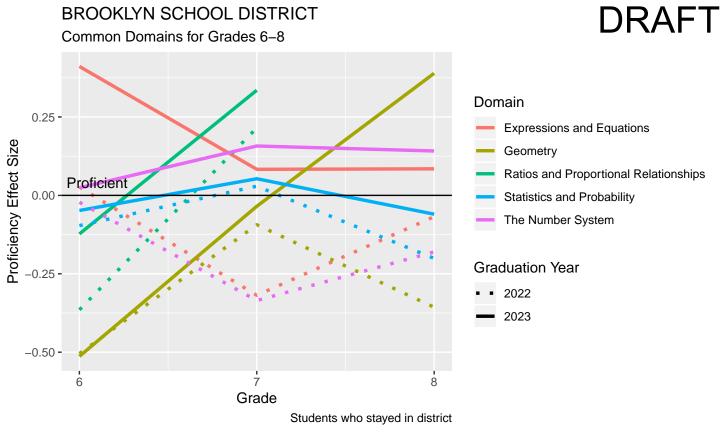


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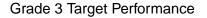
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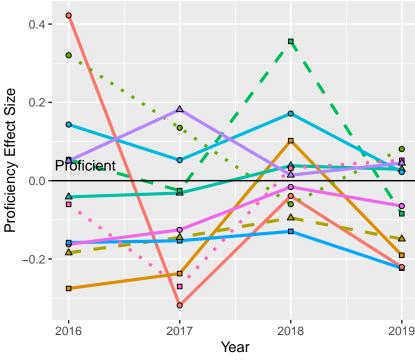
- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in
- bivariate data.
 Know that there are numbers that are
- not rational, and approximate them by rational numbers.
- Solve real–world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and integer exponents.





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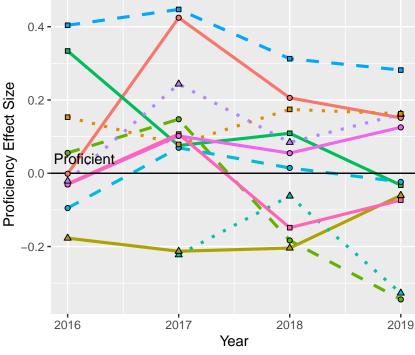


Target

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
- estimation of intervals of time, liquid
- volumes, and masses of objects. Solve problems involving the four operations, and identify and explain
- patterns in arithmetic. Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi-digit arithmetic.

solid = Major, dashed = Supporting, dotted = Additional

Grade 4 Target Performance



solid = Major, dashed = Supporting, dotted = Additional

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Target

Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.

 Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

Extend understanding of fraction equivalence and ordering.
Gain familiarity with factors and

multiples.
Generalize place value understanding for multi-digit whole numbers.

Generate and analyze patterns.

Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

understand concepts of angle and measure angles.

Understand decimal notation for fractions, and compare decimal fractions.

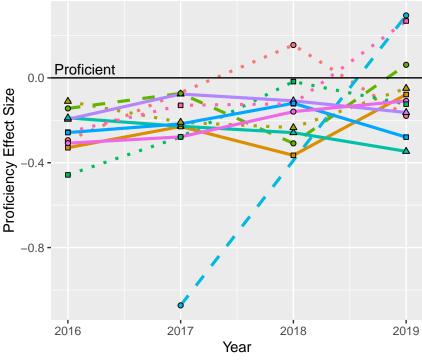
Use place value understanding and properties of operations to perform multi–digit arithmetic.

Use the four operations with whole

Use the four operations with whole numbers to solve problems.

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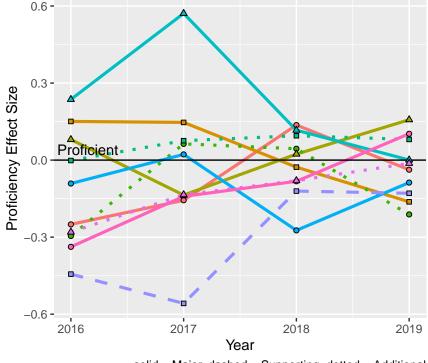
Grade 5 Target Performance



solid = Major, dashed = Supporting, dotted = Additional

- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two–dimensional figures into
- categories based on their properties.
 Convert like measurement units within a
- given measurement system.
 Graph points on the coordinate plane
- to solve real–world and mathematical problems.
- Perform operations with multi–digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance



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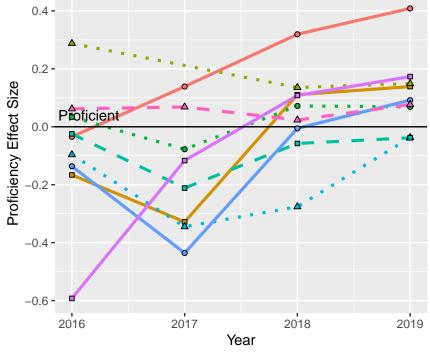
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Target

numbers.

- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- Compute fluently with multi-digit numbers and find common factors and
- multiples.
 Develop understanding of statistical variability.
- Reason about and solve one–variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real–world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance



solid = Major, dashed = Supporting, dotted = Additional

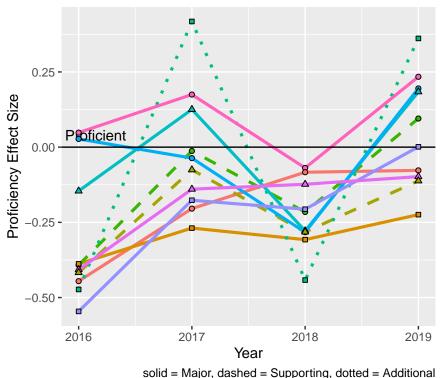
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- Analyze proportional relationships and use them to solve real–world and mathematical problems.
 - Apply and extend previous understandings
- of operations with fractions to add, subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- • figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical problems involving angle measure, area,
- surface area, and volume.

 Solve real-life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- Use random sampling to draw inference about a population.

Grade 8 Target Performance



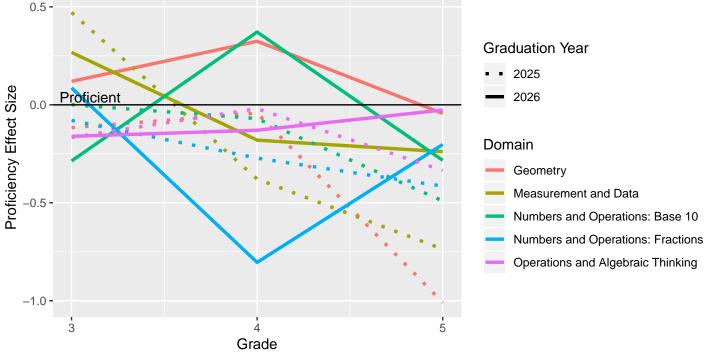


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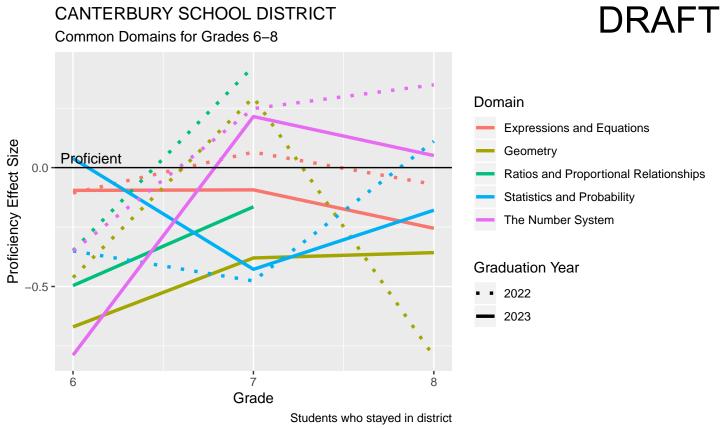
- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real–world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and integer exponents.

CANTERBURY SCHOOL DISTRICT Common Domains for Grades 3–5

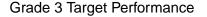


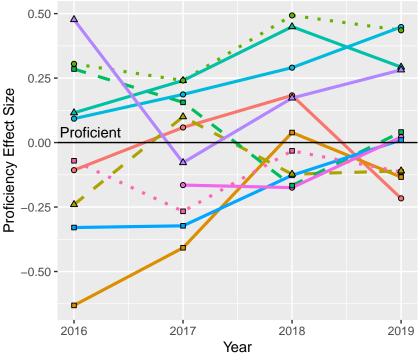


Students who stayed in district



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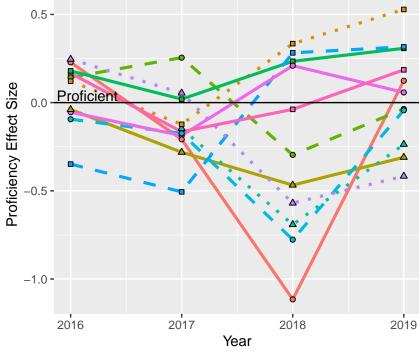


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- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division.
 - multiplication and division.
 Solve problems involving measurement and estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four
- operations, and identify and explain patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.

 Use place value understanding
- Use place value understanding and properties of arithmetic to perform multi–digit arithmetic.

Grade 4 Target Performance



solid = Major, dashed = Supporting, dotted = Additional

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Target

Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.

 Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

Extend understanding of fraction equivalence and ordering.
Gain familiarity with factors and

multiples.

Generalize place value understanding for multi–digit whole numbers.

Generate and analyze patterns.

Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

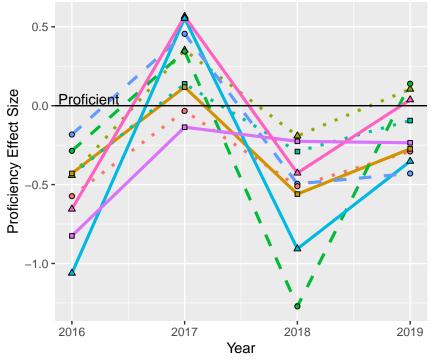
understand concepts of angle and measure angles.

Understand decimal notation for fractions, and compare decimal fractions.

Use place value understanding and properties of operations to perform multi-digit arithmetic.
 Use the four operations with whole

use the four operations with whole numbers to solve problems.

Grade 5 Target Performance



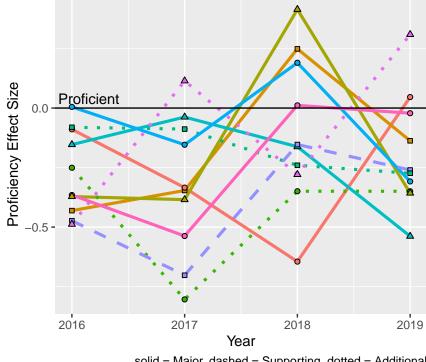
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- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.

 Classify two-dimensional figures into
- categories based on their properties.
 Convert like measurement units within a
- given measurement system.
 Graph points on the coordinate plane
- to solve real–world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance



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Target

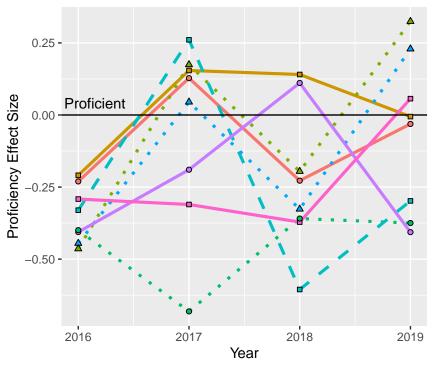
numbers.

- Apply and extend previous understandings of arithmetic to algebraic expressions. Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- Compute fluently with multi-digit numbers and find common factors and
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- Reason about and solve one-variable equations and inequalities. Represent and analyze quantitative
- relationships between dependent and independent variables.
- Solve real-world and mathematical problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

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Grade 7 Target Performance





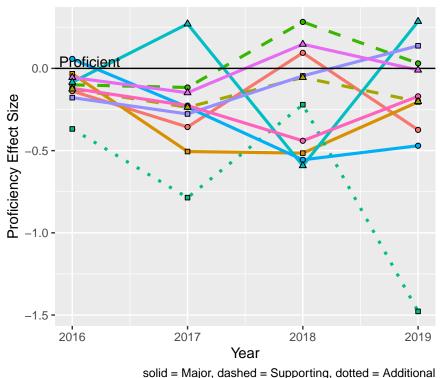
Target

- Analyze proportional relationships and use them to solve real–world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.
- Draw, construct and describe geometrical figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical problems involving angle measure, area, surface area, and volume.
- Solve real-life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- Use random sampling to draw inference about a population.

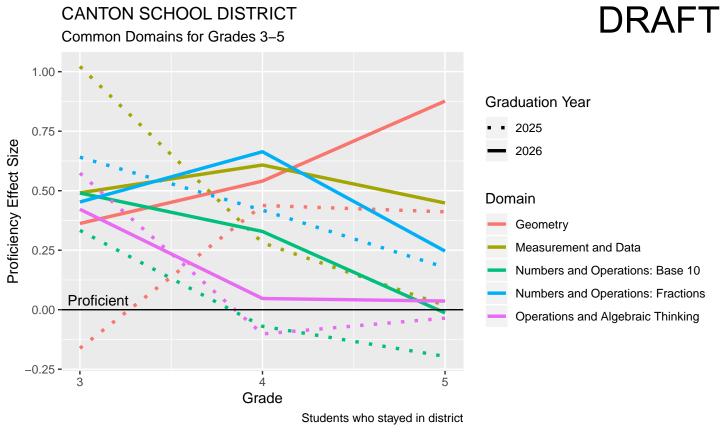
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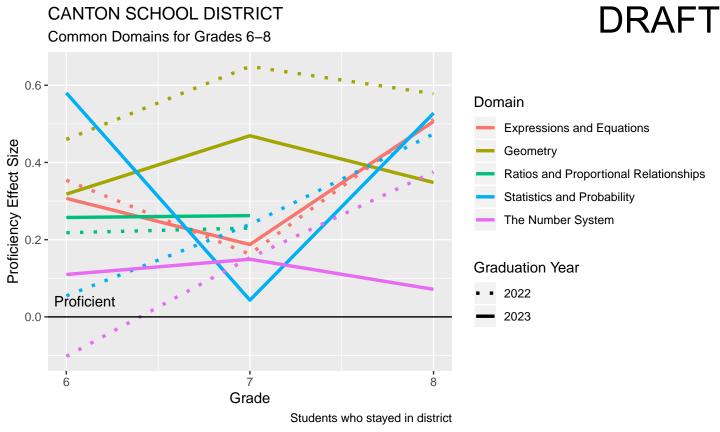
Grade 8 Target Performance





- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real–world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and intege exponents.

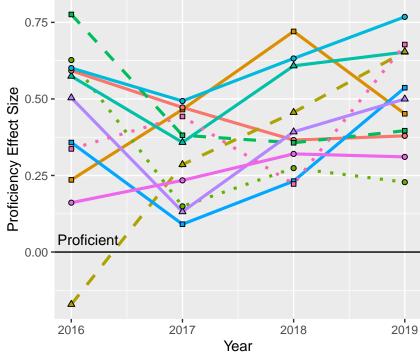




CANTON SCHOOL DISTRICT

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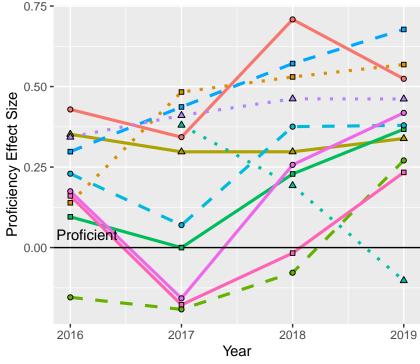
solid = Major, dashed = Supporting, dotted = Additional

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
- estimation of intervals of time, liquid
- volumes, and masses of objects. Solve problems involving the four operations, and identify and explain
- patterns in arithmetic. Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi-digit arithmetic.

CANTON SCHOOL DISTRICT

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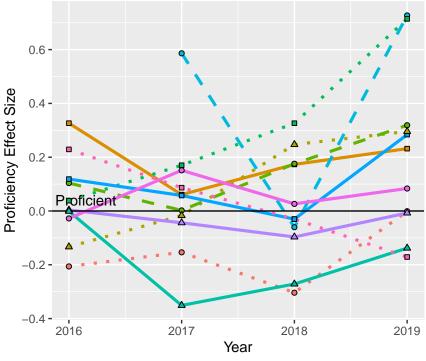
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- Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.
- Draw and identify lines and angles, and classify shapes by properties of their lines and angles.
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- multiples.
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- Generate and analyze patterns.
- Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.
- understand concepts of angle and measure angles.
- Understand decimal notation for fractions, and compare decimal fractions.
 Use place value understanding and
- o properties of operations to perform multi-digit arithmetic.
- Use the four operations with whole numbers to solve problems.

CANTON SCHOOL DISTRICT

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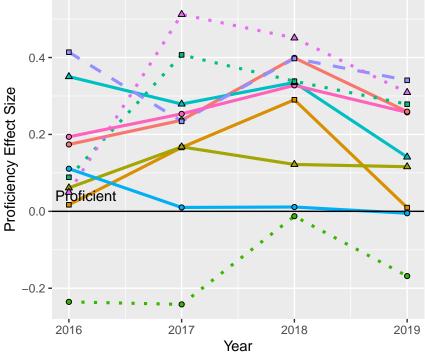




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- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two-dimensional figures into
- categories based on their properties.
 Convert like measurement units within a
- given measurement system.
 Graph points on the coordinate plane
- to solve real–world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
 - Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance



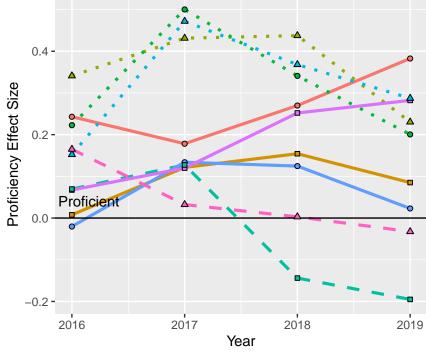
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Target

- Apply and extend previous understandings of arithmetic to algebraic expressions.
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- of multiplication and division to divide fractions by fractions.
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- numbers.
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- Reason about and solve one-variable equations and inequalities. Represent and analyze quantitative
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- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

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Grade 7 Target Performance



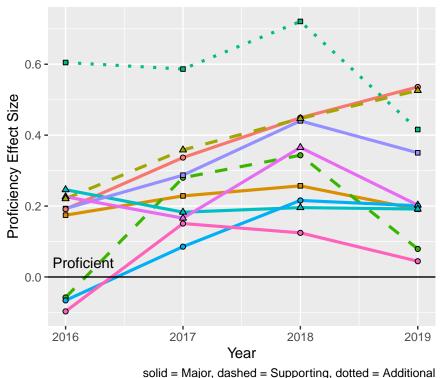
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- Analyze proportional relationships and use them to solve real-world and mathematical problems.
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- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
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- surface area, and volume. Solve real-life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- about a population.

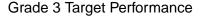
Grade 8 Target Performance

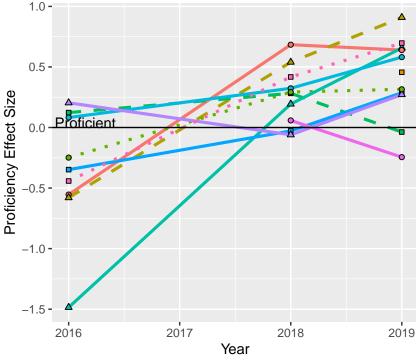




- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
 - Solve real-world and mathematical problems involving volume of cylinders, cones and spheres.
 - Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and intege exponents.

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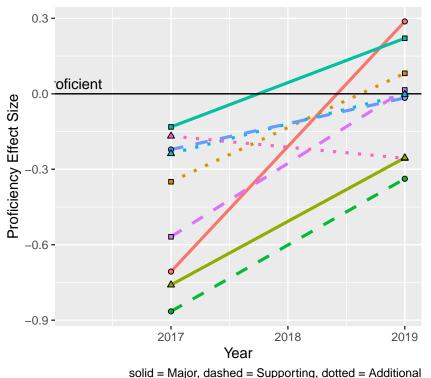


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- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
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- volumes, and masses of objects.
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 patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi–digit arithmetic.

Grade 4 Target Performance



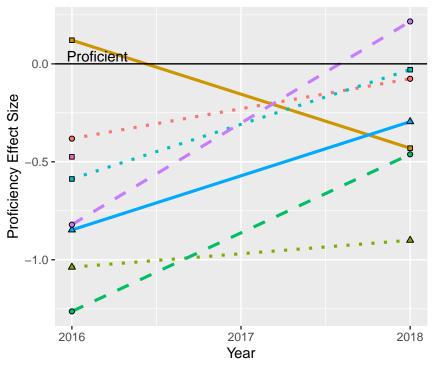


Target

- Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.
- Draw and identify lines and angles, and classify shapes by properties of their lines and angles.
 - Extend understanding of fraction equivalence and ordering.
 Generalize place value understanding for
 - multi-digit whole numbers.
 Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.
 - understand concepts of angle and measure angles.
- Understand decimal notation for fractions, and compare decimal fractions.
- Use place value understanding and properties of operations to perform multi–digit arithmetic.

 Use the four operations with whole
- Use the four operations with whole numbers to solve problems.

Grade 5 Target Performance

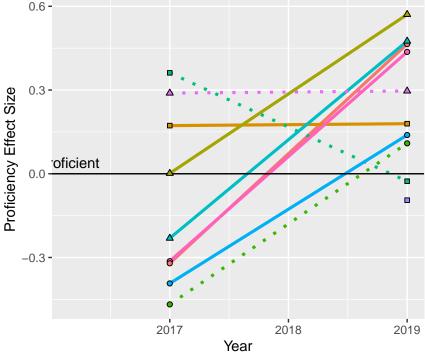


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DRAFT

- Apply and extend previous understandings of multiplication and division to multiply and divide fractions.
- Classify two-dimensional figures into categories based on their properties. Graph points on the coordinate plane
- to solve real–world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance

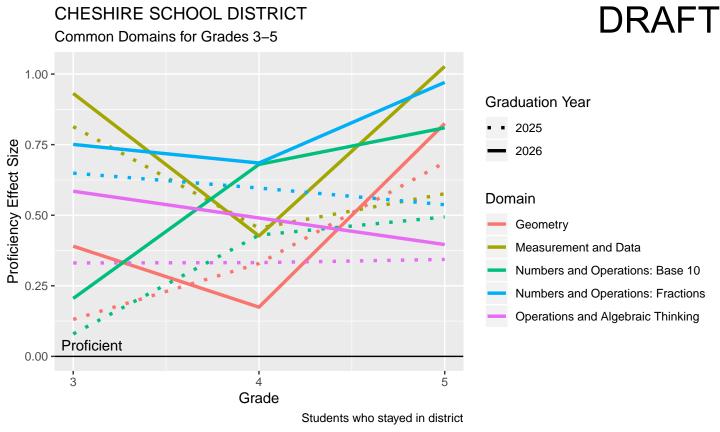


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DRAFT

- Apply and extend previous understandings of arithmetic to algebraic expressions.

 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational numbers.
- Compute fluently with multi-digit numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one–variable equations and inequalities. Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real-world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.



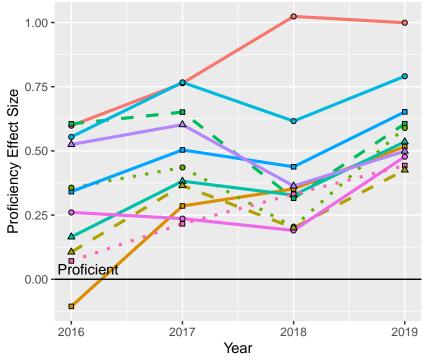
CHESHIRE SCHOOL DISTRICT DRAFT Common Domains for Grades 6-8 0.8 -Domain **Expressions and Equations** 0.6 -Geometry Ratios and Proportional Relationships Statistics and Probability 0.4 -The Number System **Graduation Year** 2022 Proficient_ 2023 0.0 -6 Grade

Proficiency Effect Size

Students who stayed in district

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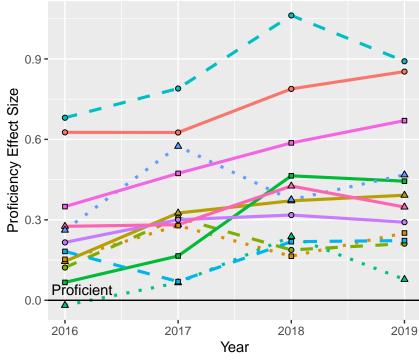




solid = Major, dashed = Supporting, dotted = Additional

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- A Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
- Solve problems involving measurement and
 estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four operations, and identify and explain patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
 Use place value understanding and
- properties of arithmetic to perform multi–digit arithmetic.

Grade 4 Target Performance



solid = Major, dashed = Supporting, dotted = Additional

Target

DRAFT

Build fractions from unit fractions by applying and extending previous

understandings of operations on whole numbers.

Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

Extend understanding of fraction equivalence and ordering. Gain familiarity with factors and

multiples.

Generalize place value understanding for multi-digit whole numbers.

Generate and analyze patterns.

Represent and interpret data.

Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

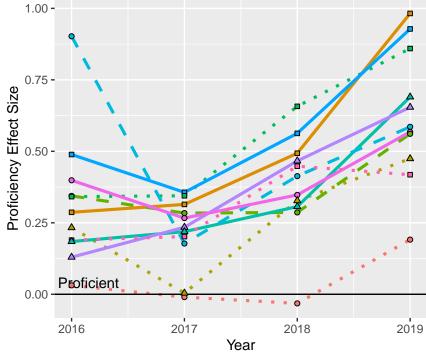
understand concepts of angle and measure angles. Understand decimal notation for

fractions, and compare decimal fractions.

Use place value understanding and properties of operations to perform multi-digit arithmetic.
Use the four operations with whole

numbers to solve problems.

Grade 5 Target Performance



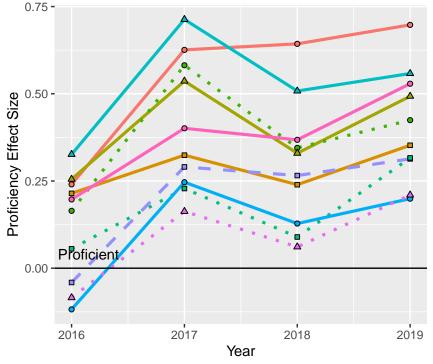
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DRAFT

- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two–dimensional figures into
- categories based on their properties.
 Convert like measurement units within a
- given measurement system.

 Graph points on the coordinate plane
- to solve real-world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance

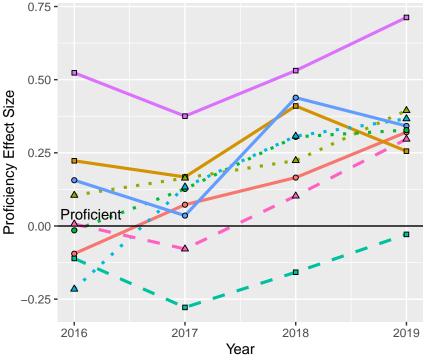


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- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi-digit
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one–variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real–world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance

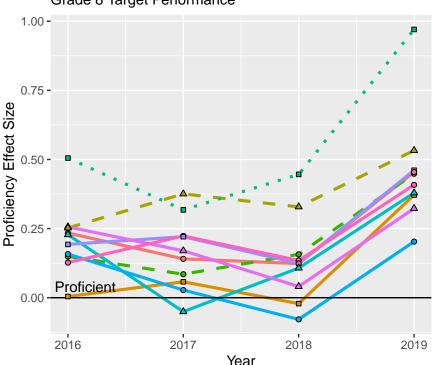


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DRAFT

- Analyze proportional relationships and use them to solve real—world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add,
- of operations with fractions to add, subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- • figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical
- problems involving angle measure, area, surface area, and volume.
 Solve real-life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- Use random sampling to draw inference about a population.

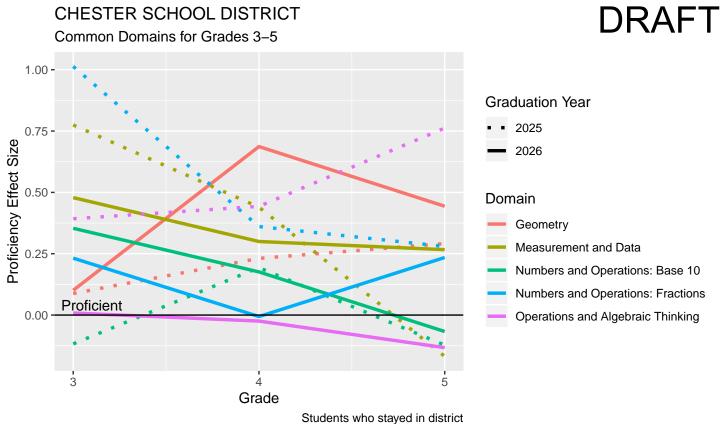
Grade 8 Target Performance



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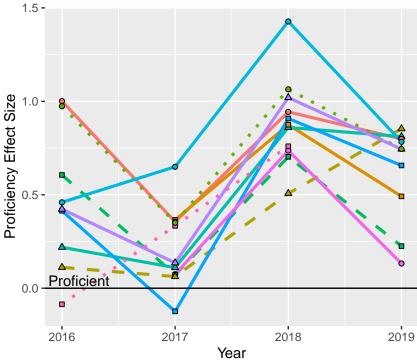
DRAFT

- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions: Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by
- rational numbers. Solve real-world and mathematical
- problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities. Work with radicals and integer
- exponents.



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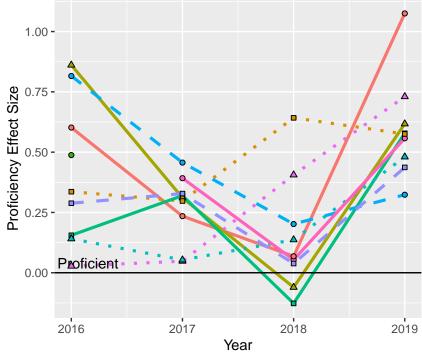




solid = Major, dashed = Supporting, dotted = Additional

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
- estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four
- operations, and identify and explain patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
 Use place value understanding and
- properties of arithmetic to perform multi–digit arithmetic.

Grade 4 Target Performance



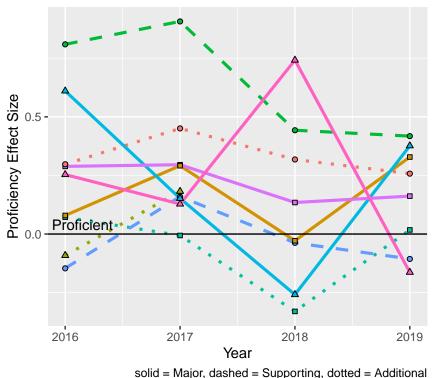
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DRAFT

- Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.
- Draw and identify lines and angles, and classify shapes by properties of their lines and angles.
- Extend understanding of fraction equivalence and ordering.
 Gain familiarity with factors and
- multiples.
 Generalize place value understanding for
- multi-digit whole numbers.
 Solve problems involving measurement and conversion of measurements from a larger
- unit to a smaller unit.
 understand concepts of angle and measure
 angles.
- Understand decimal notation for fractions, and compare decimal fractions.
- Use place value understanding and properties of operations to perform multi–digit arithmetic.
 Use the four operations with whole
- Use the four operations with whole numbers to solve problems.

Grade 5 Target Performance





Target

Apply and extend previous understandings of multiplication and division to

multiply and divide fractions.

Classify two-dimensional figures into

categories based on their properties.
Convert like measurement units within a given measurement system.

Graph points on the coordinate plane to solve real-world and mathematical

to solve real–world and mathematical problems.

Perform operations with multi-digit whole numbers and with decimals to hundredths.

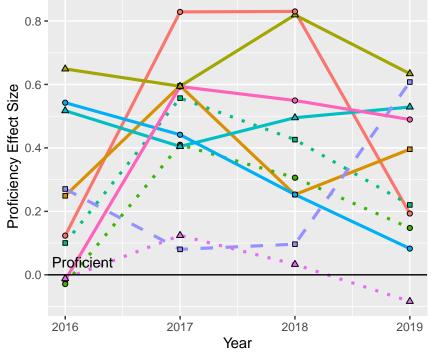
 Understand concepts of volume and relate volume to multiplication and to addition.

Understand the place value system.

Use equivalent fractions as a strategy to add and subtract fractions.

Write and interpret numerical expressions.

Grade 6 Target Performance



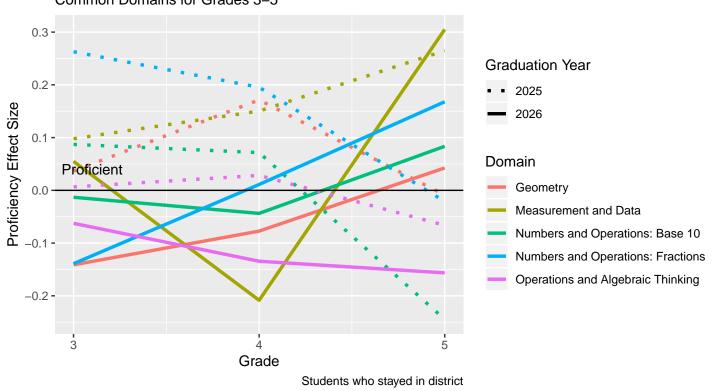
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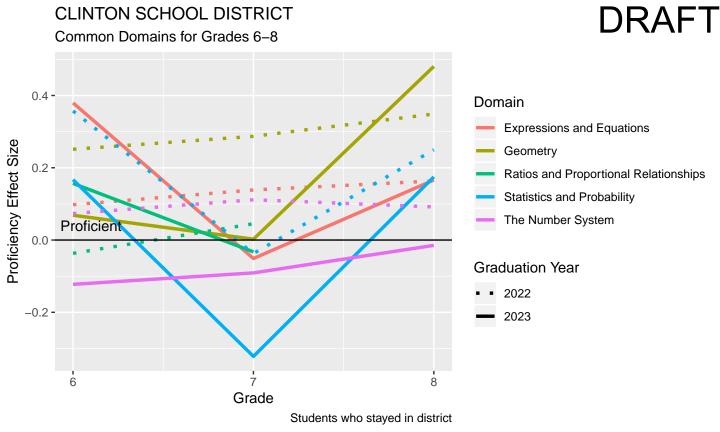
DRAFT

- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi-digit
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one-variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real–world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

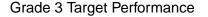
CLINTON SCHOOL DISTRICT Common Domains for Grades 3–5

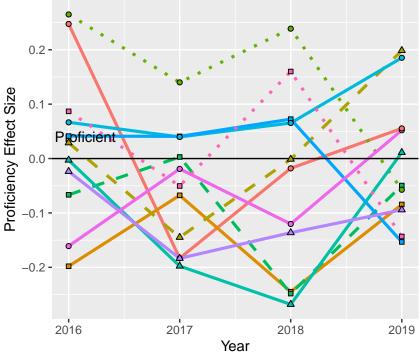






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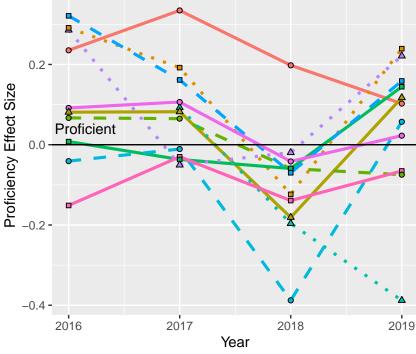


solid = Major, dashed = Supporting, dotted = Additional

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
- estimation of intervals of time, liquid
- volumes, and masses of objects. Solve problems involving the four
- operations, and identify and explain patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi-digit arithmetic.

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Grade 4 Target Performance

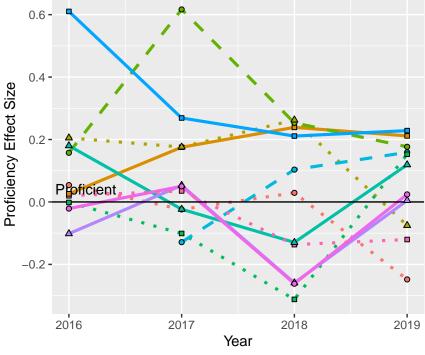


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- Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.
- Draw and identify lines and angles, and classify shapes by properties of their lines and angles.
- Extend understanding of fraction equivalence and ordering.
 Gain familiarity with factors and
- multiples.
 Generalize place value understanding for multi–digit whole numbers.
- Generate and analyze patterns.
- Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.
- understand concepts of angle and measure angles.
- Understand decimal notation for fractions, and compare decimal fractions.
- Use place value understanding and properties of operations to perform multi-digit arithmetic.

 Use the four operations with whole
- Use the four operations with whole numbers to solve problems.

Grade 5 Target Performance

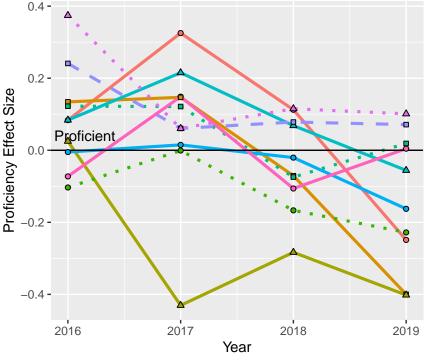


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DRAFT

- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two-dimensional figures into
- categories based on their properties.
 Convert like measurement units within a given measurement system.
- Graph points on the coordinate plane
- to solve real–world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance

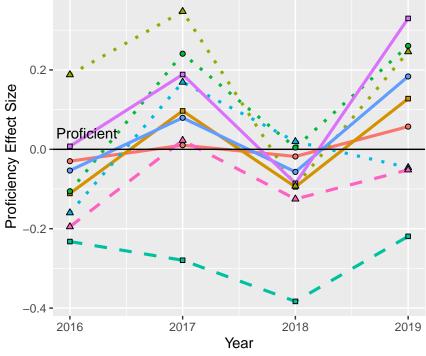


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DRAFT

- Apply and extend previous understandings of arithmetic to algebraic expressions. Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi-digit
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one–variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real—world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance



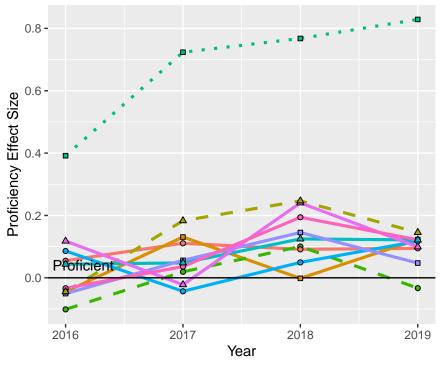
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DRAFT

- Analyze proportional relationships and use them to solve real-world and mathematical problems.
 - Apply and extend previous understandings of operations with fractions to add,
- subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
 - Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical problems involving angle measure, area,
- surface area, and volume. Solve real-life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- about a population.

Grade 8 Target Performance

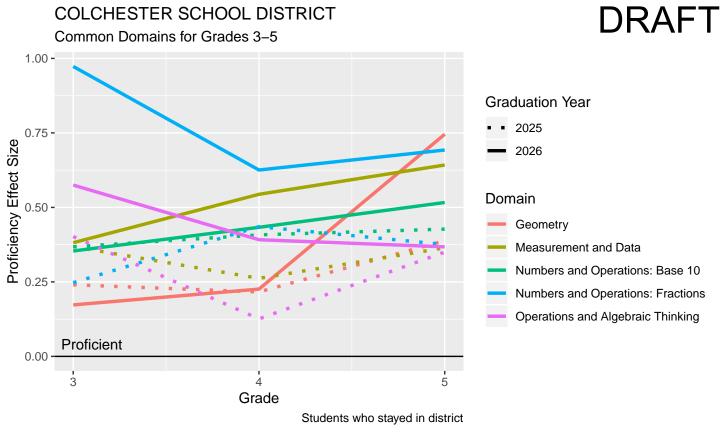




Target

- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by
 - rational numbers.
 Solve real–world and mathematical problems involving volume of cylinders,
- cones and spheres.
 Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and intege exponents.

solid = Major, dashed = Supporting, dotted = Additional



COLCHESTER SCHOOL DISTRICT DRAFT Common Domains for Grades 6-8 0.9 -Domain **Expressions and Equations** 0.6 -Geometry Ratios and Proportional Relationships Statistics and Probability 0.3 -The Number System **Graduation Year** Proficient 0.0 2022 2023

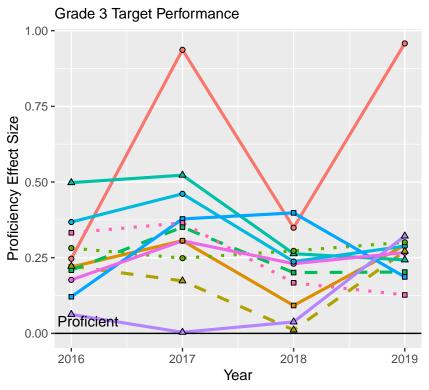
Proficiency Effect Size

-0.3 **-**

Students who stayed in district

Grade

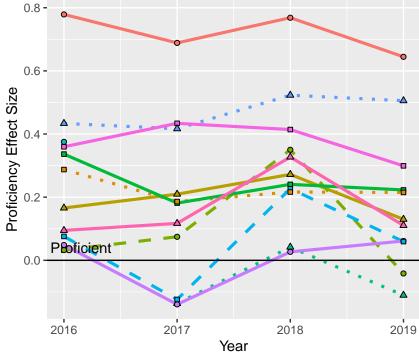
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solid = Major, dashed = Supporting, dotted = Additional

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- A Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
- estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four
 operations, and identify and explain
- patterns in arithmetic.
 Understand concepts of area and relate area to multiplication and to addition.
 Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi–digit arithmetic.

Grade 4 Target Performance



solid = Major, dashed = Supporting, dotted = Additional

Target

DRAFT

Build fractions from unit fractions

by applying and extending previous understandings of operations on whole numbers.

Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

Extend understanding of fraction equivalence and ordering. Gain familiarity with factors and

multiples.

Generalize place value understanding for multi-digit whole numbers.

Generate and analyze patterns.

Represent and interpret data.

Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

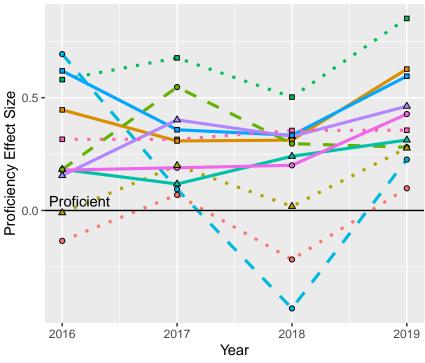
understand concepts of angle and measure angles. Understand decimal notation for

fractions, and compare decimal fractions.

Use place value understanding and properties of operations to perform multi-digit arithmetic. Use the four operations with whole

numbers to solve problems.

Grade 5 Target Performance

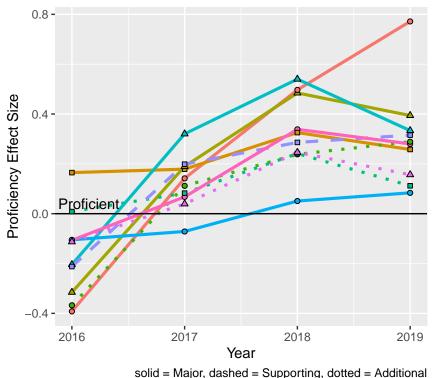


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DRAFT

- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two-dimensional figures into
- categories based on their properties.
 Convert like measurement units within a given measurement system.
- Graph points on the coordinate plane to solve real—world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance



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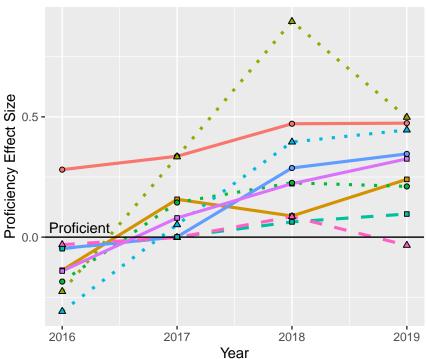
Target

numbers.

- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- Compute fluently with multi-digit numbers and find common factors and
- multiples.

 Develop understanding of statistical variability.
- Reason about and solve one-variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real-world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance



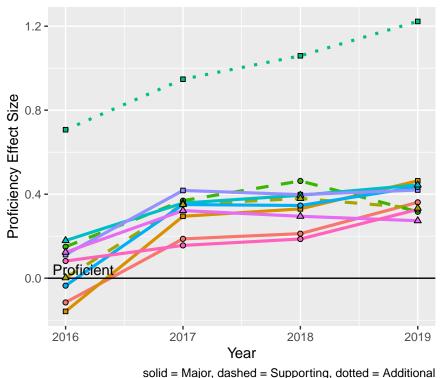
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DRAFT

- Analyze proportional relationships and use them to solve real-world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add,
- subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical problems involving angle measure, area,
- surface area, and volume. Solve real-life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- about a population.

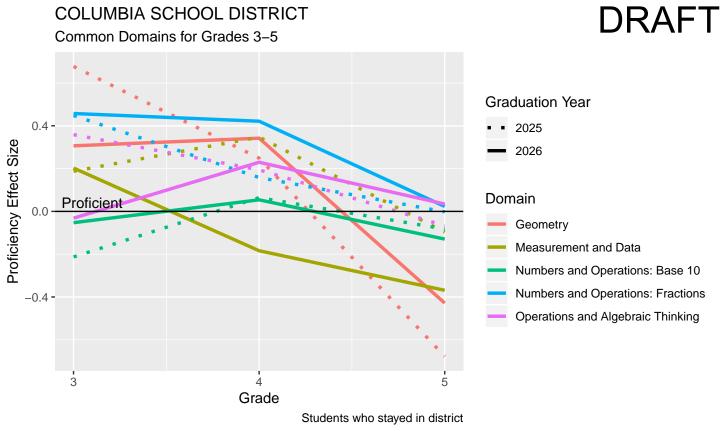
Grade 8 Target Performance





Target

- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
 - Solve real—world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and integer exponents.



DRAFT COLUMBIA SCHOOL DISTRICT Common Domains for Grades 6-8 Domain **Proficient** 0.00 -**Expressions and Equations** Geometry Ratios and Proportional Relationships Statistics and Probability -0.25 **-**The Number System

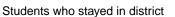
Graduation Year

20222023

Proficiency Effect Size

-0.50 **-**

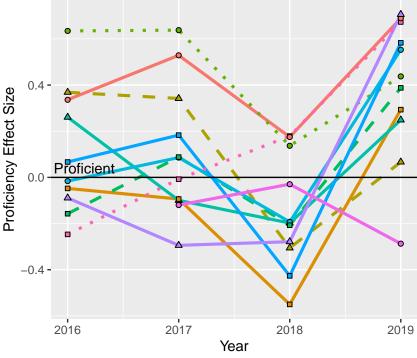
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Grade

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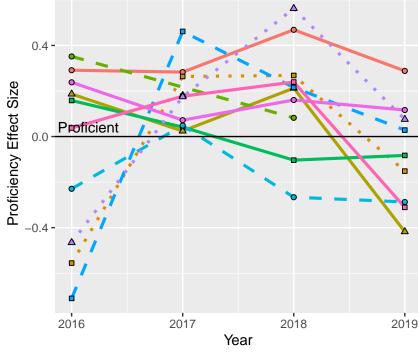




solid = Major, dashed = Supporting, dotted = Additional

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
- estimation of intervals of time, liquid
- volumes, and masses of objects. Solve problems involving the four operations, and identify and explain
- patterns in arithmetic. Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi-digit arithmetic.

Grade 4 Target Performance



Target

Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.

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 Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

Extend understanding of fraction equivalence and ordering.
Gain familiarity with factors and

multiples.
Generalize place value understanding for multi-digit whole numbers.

■ Generate and analyze patterns.

Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

understand concepts of angle and measure angles.

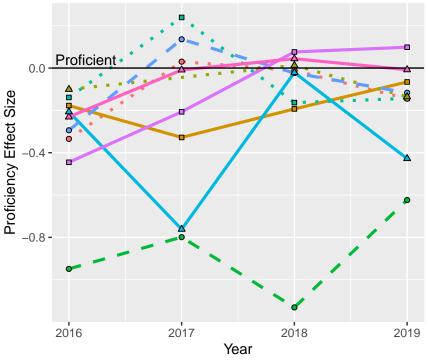
Understand decimal notation for fractions, and compare decimal fractions.

Use place value understanding and properties of operations to perform multi-digit arithmetic.

Use the four operations with whole numbers to solve problems.

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Grade 5 Target Performance



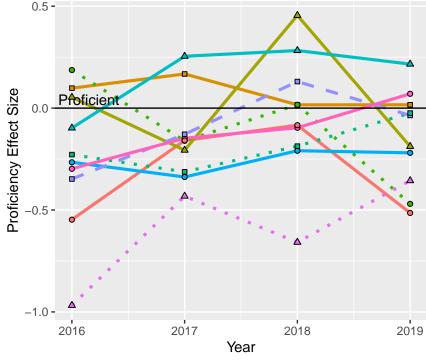
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Target

- Apply and extend previous understandings of multiplication and division to
- of multiplication and division to multiply and divide fractions.
- Classify two-dimensional figures into categories based on their properties.
 Convert like measurement units within a
- given measurement system.
 Graph points on the coordinate plane
- to solve real-world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

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Grade 6 Target Performance



solid = Major, dashed = Supporting, dotted = Additional

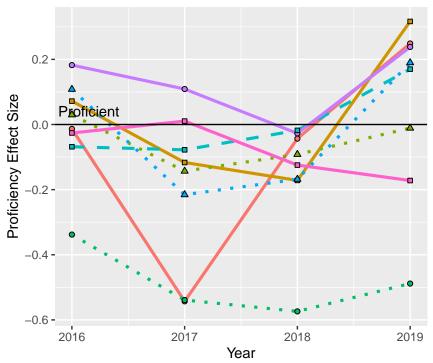
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Target

numbers.

- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- Compute fluently with multi-digit numbers and find common factors and
- multiples.
 Develop understanding of statistical variability.
- Reason about and solve one-variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real–world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance



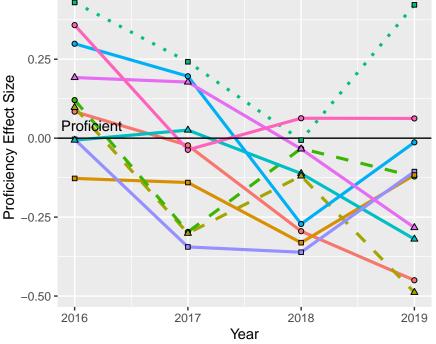
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DRAFT

- Analyze proportional relationships and use them to solve real–world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.
- Draw, construct and describe geometrical figures and describe the relationships
- between them.

 Investigate chance processes and
- develop, use, and evaluate probability models.
- Solve real-life and mathematical problems involving angle measure, area, surface area, and volume.
- Solve real-life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- Use random sampling to draw inference about a population.





solid = Major, dashed = Supporting, dotted = Additional

- pairs of simultaneous linear equations. Functions: Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
 - Solve real-world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
- Work with radicals and integer exponents.

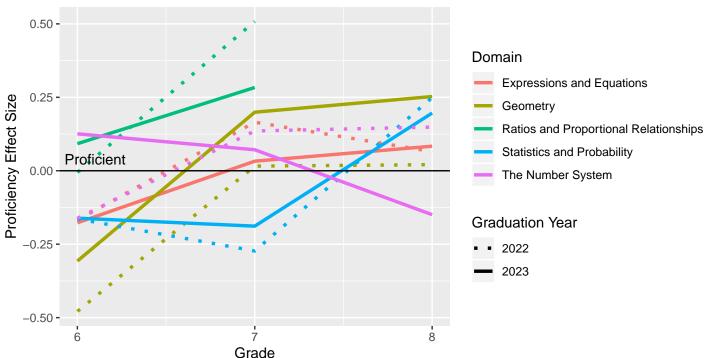
COVENTRY SCHOOL DISTRICT DRAFT Common Domains for Grades 3-5 **Graduation Year** 2025 2026 Domain Geometry Measurement and Data Numbers and Operations: Base 10 Proficient Numbers and Operations: Fractions Operations and Algebraic Thinking Grade

Students who stayed in district

Proficiency Effect Size

COVENTRY SCHOOL DISTRICT Common Domains for Grades 6–8

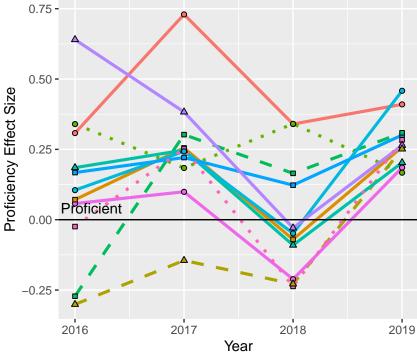




Students who stayed in district

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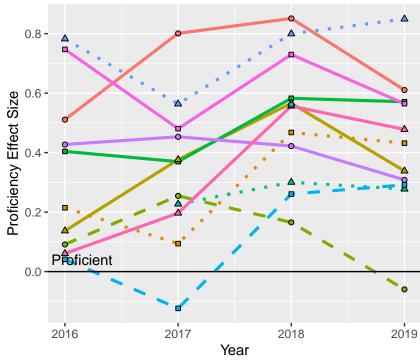




solid = Major, dashed = Supporting, dotted = Additional

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
- estimation of intervals of time, liquid
- volumes, and masses of objects. Solve problems involving the four operations, and identify and explain
- patterns in arithmetic. Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi-digit arithmetic.

Grade 4 Target Performance



solid = Major, dashed = Supporting, dotted = Additional

Target

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Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.

Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

Extend understanding of fraction equivalence and ordering. Gain familiarity with factors and

multiples.

Generalize place value understanding for multi-digit whole numbers.

Generate and analyze patterns.

Represent and interpret data.

Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

understand concepts of angle and measure angles. Understand decimal notation for

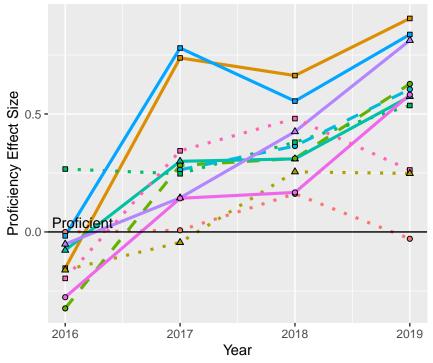
fractions, and compare decimal fractions.

Use place value understanding and properties of operations to perform multi-digit arithmetic.
Use the four operations with whole

numbers to solve problems.

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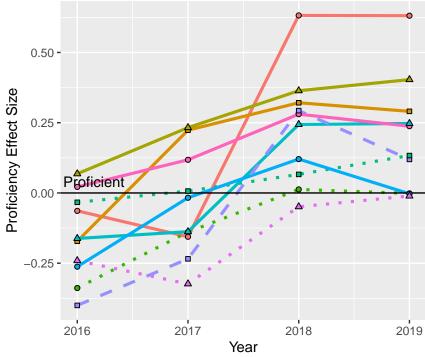
Grade 5 Target Performance



solid = Major, dashed = Supporting, dotted = Additional

- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two–dimensional figures into
- categories based on their properties.
 Convert like measurement units within a given measurement system.
- Graph points on the coordinate plane
- to solve real–world and mathematical problems.
 Perform operations with multi–digit
- whole numbers and with decimals to hundredths.
- Represent and interpret data.
 - Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance



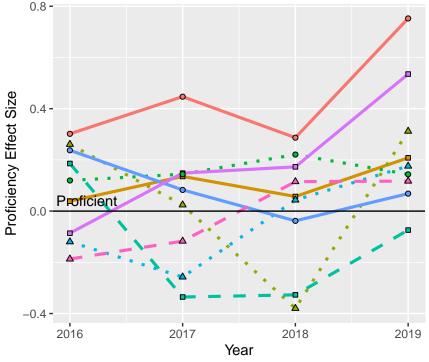
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- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational numbers.
- Compute fluently with multi-digit numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one-variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real–world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

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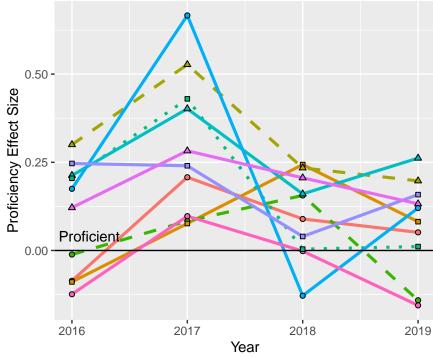




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- Analyze proportional relationships and use them to solve real-world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add,
- subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical problems involving angle measure, area,
- surface area, and volume. Solve real-life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- about a population.

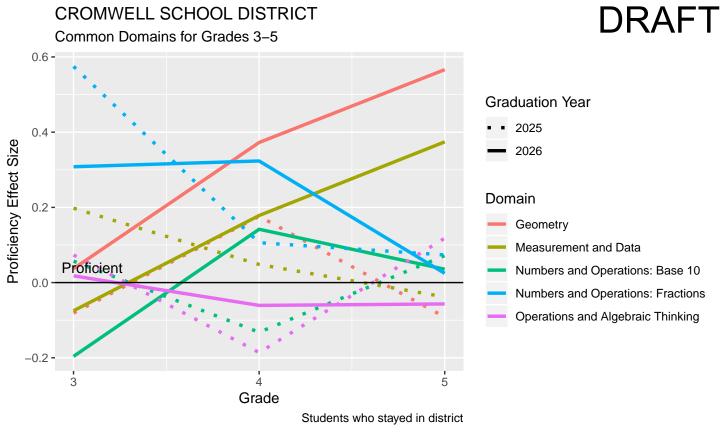
Grade 8 Target Performance



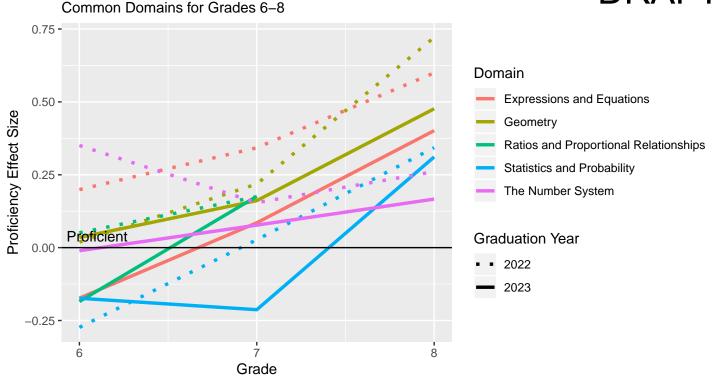
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- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real–world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
- Work with radicals and integer exponents.

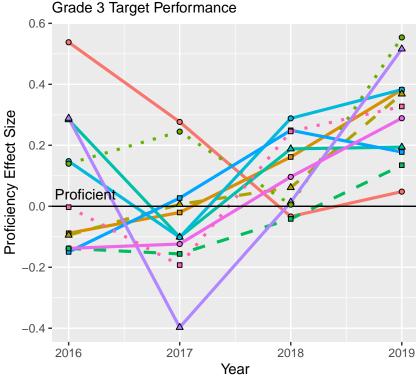






Students who stayed in district

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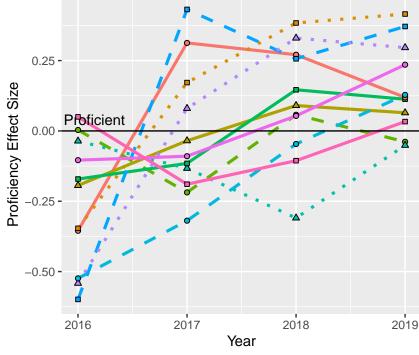


solid = Major, dashed = Supporting, dotted = Additional

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
- estimation of intervals of time, liquid
- volumes, and masses of objects. Solve problems involving the four operations, and identify and explain
- patterns in arithmetic. Understand concepts of area and relate
- area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division. Use place value understanding and
- properties of arithmetic to perform multi-digit arithmetic.

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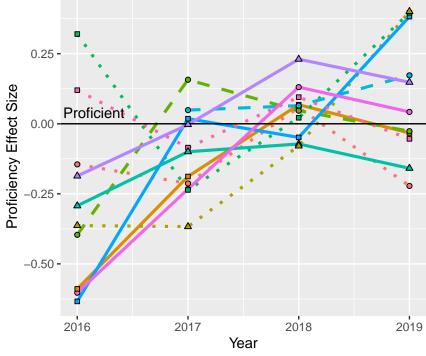


Target

- Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.
- Draw and identify lines and angles, and classify shapes by properties of their lines and angles.
- Extend understanding of fraction equivalence and ordering.
 Gain familiarity with factors and
- multiples.
 Generalize place value understanding for multi-digit whole numbers.
- Generate and analyze patterns.
- Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.
- understand concepts of angle and measure angles.
- Understand decimal notation for fractions, and compare decimal fractions.
 Use place value understanding and
- properties of operations to perform multi–digit arithmetic.
 Use the four operations with whole
- Use the four operations with whole numbers to solve problems.

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Grade 5 Target Performance



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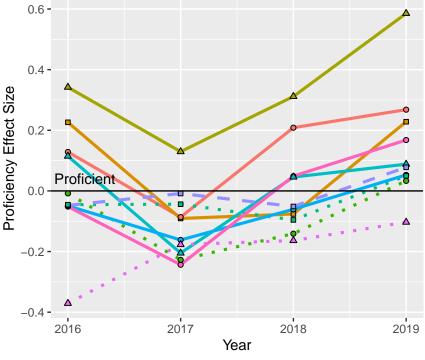
Target

- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two-dimensional figures into
- categories based on their properties.
 Convert like measurement units within a given measurement system.
- Graph points on the coordinate plane to solve real–world and mathematical
- problems.
 Perform operations with multi–digit
 whole numbers and with decimals to
- Represent and interpret data.

hundredths.

- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance

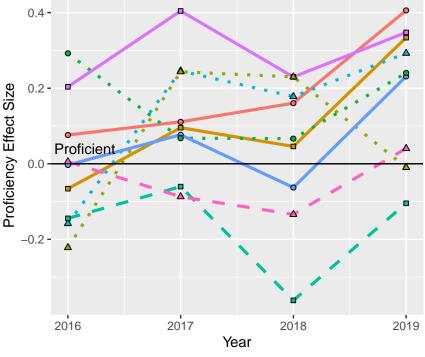


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- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi-digit
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one–variable equations and inequalities. Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real—world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance



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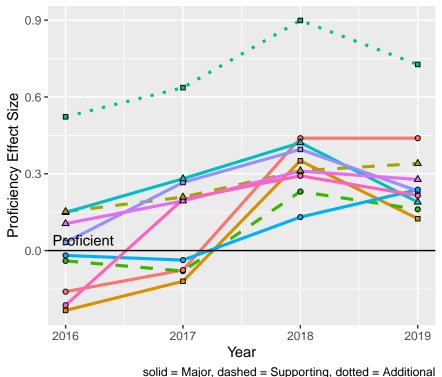
Target

- Analyze proportional relationships and use them to solve real–world and mathematical problems.
 - Apply and extend previous understandings of operations with fractions to add,
- of operations with fractions to add, subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- • figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical problems involving angle measure, area,
- surface area, and volume. Solve real–life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- Use random sampling to draw inferences about a population.

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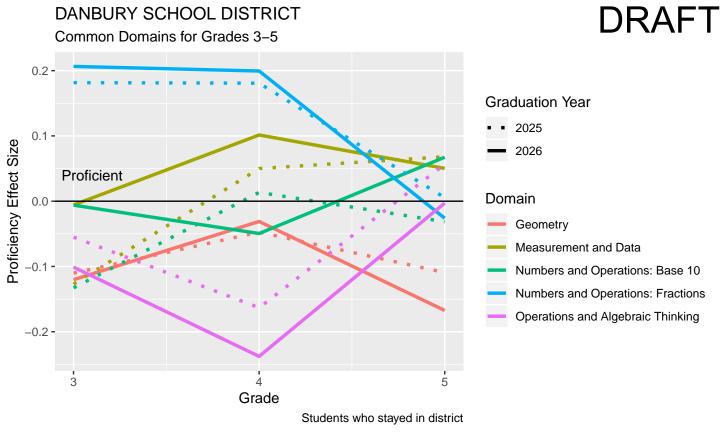
Grade 8 Target Performance





Target

- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real—world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and intege exponents.



DANBURY SCHOOL DISTRICT DRAFT Common Domains for Grades 6-8 **Proficient** 0.0 Domain **Expressions and Equations** Geometry -0.2 **-**Ratios and Proportional Relationships Statistics and Probability The Number System -0.4 **-**

Proficiency Effect Size

-0.6 **-**

6

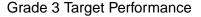
Students who stayed in district

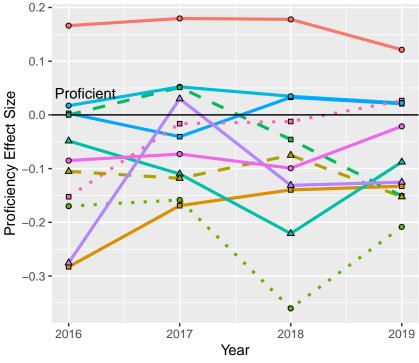
Grade

Graduation Year

20222023

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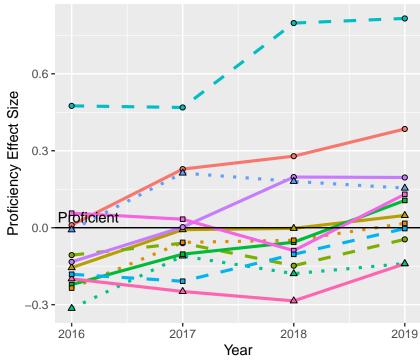




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- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division.
 Solve problems involving measurement and
- Solve problems involving measurement and estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four
- operations, and identify and explain patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
 Use place value understanding and
- properties of arithmetic to perform multi–digit arithmetic.

Grade 4 Target Performance



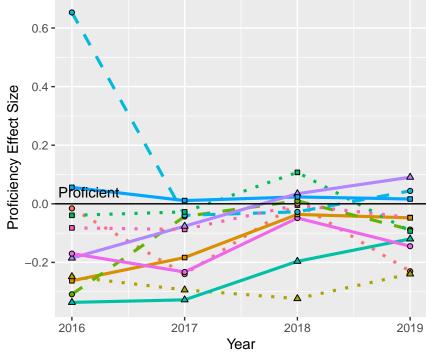
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Target

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- Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.
- Draw and identify lines and angles, and classify shapes by properties of their lines and angles.
- Extend understanding of fraction equivalence and ordering. Gain familiarity with factors and
- multiples. Generalize place value understanding for
- multi-digit whole numbers.
- Generate and analyze patterns.
- Represent and interpret data.
- Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.
- understand concepts of angle and measure angles. Understand decimal notation for
- fractions, and compare decimal fractions.
- Use place value understanding and properties of operations to perform multi-digit arithmetic.
 Use the four operations with whole
- numbers to solve problems.

Grade 5 Target Performance

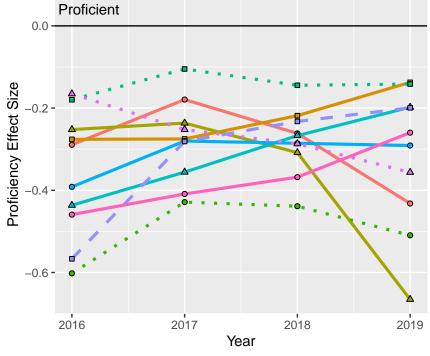


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- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two-dimensional figures into
- categories based on their properties.
 Convert like measurement units within a given measurement system.
- given measurement system.
 Graph points on the coordinate plane
- to solve real–world and mathematical problems.
 Perform operations with multi–digit
- whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance



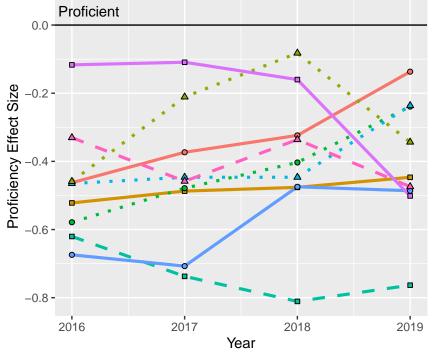
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Target

- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
 - numbers.
 Compute fluently with multi–digit
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one–variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real–world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

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Grade 7 Target Performance



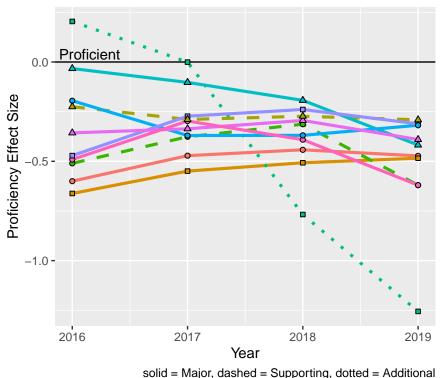
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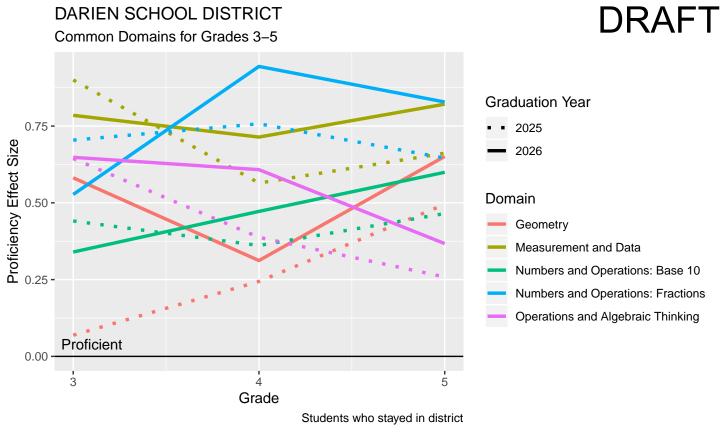
- Analyze proportional relationships and use them to solve real-world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add,
- subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
 - Solve real-life and mathematical problems involving angle measure, area,
- surface area, and volume. Solve real-life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- about a population.

Grade 8 Target Performance



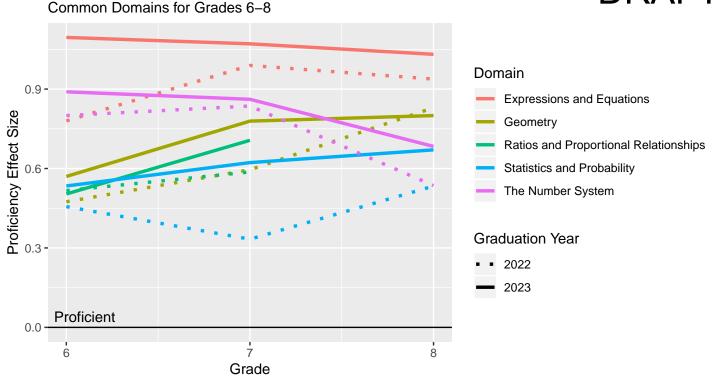


- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real—world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies,
- or geometry software.
 Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and intege exponents.



DARIEN SCHOOL DISTRICT

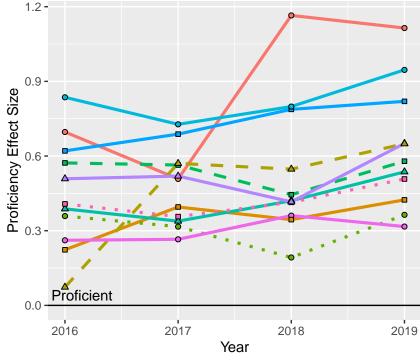




Students who stayed in district

DARIEN SCHOOL DISTRICT

Grade 3 Target Performance



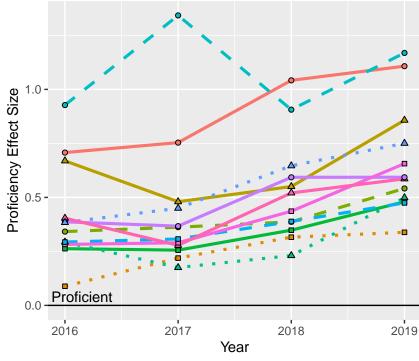
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- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division.
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 - Solve problems involving measurement and estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four
 operations, and identify and explain
- patterns in arithmetic.
 Understand concepts of area and relate
- area to multiplication and to addition.
 Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi-digit arithmetic.

DARIEN SCHOOL DISTRICT

Grade 4 Target Performance



solid = Major, dashed = Supporting, dotted = Additional

Target

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Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.

Draw and identify lines and angles, and classify shapes by properties of their

lines and angles. Extend understanding of fraction

equivalence and ordering. Gain familiarity with factors and multiples.

Generalize place value understanding for multi-digit whole numbers.

Generate and analyze patterns.

Represent and interpret data.

Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

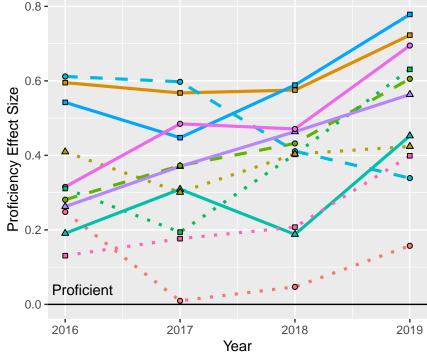
understand concepts of angle and measure angles. Understand decimal notation for

fractions, and compare decimal fractions. Use place value understanding and

properties of operations to perform multi-digit arithmetic.
Use the four operations with whole

numbers to solve problems.

Grade 5 Target Performance



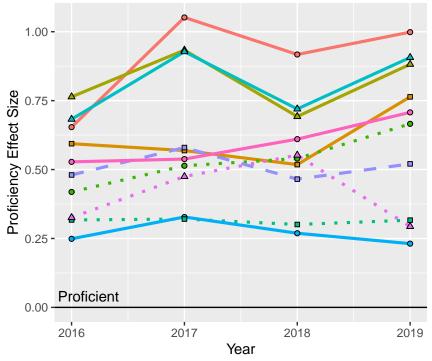
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- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two-dimensional figures into
- categories based on their properties.
 Convert like measurement units within a given measurement system.
- given measurement system.

 Graph points on the coordinate plane
- to solve real–world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance

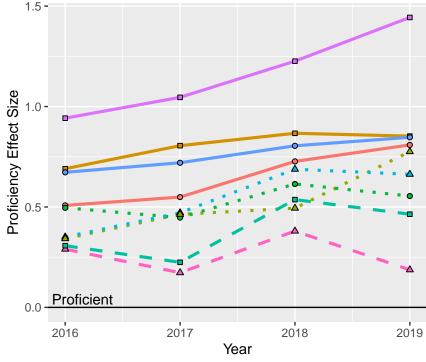


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- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi-digit
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- Develop understanding of statistical variability.
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- relationships between dependent and independent variables.
 Solve real-world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance



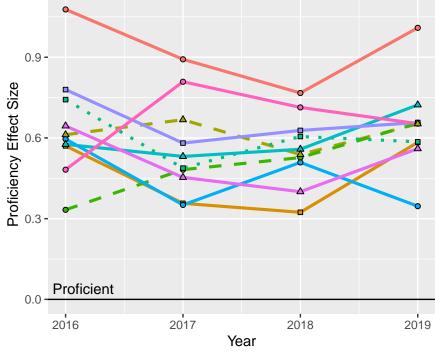
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- Analyze proportional relationships and use them to solve real-world and mathematical problems. Apply and extend previous understandings
- of operations with fractions to add, subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical problems involving angle measure, area, surface area, and volume.
- Solve real-life and mathematical problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate
- equivalent expressions.
 Use random sampling to draw inferences about a population.

Grade 8 Target Performance

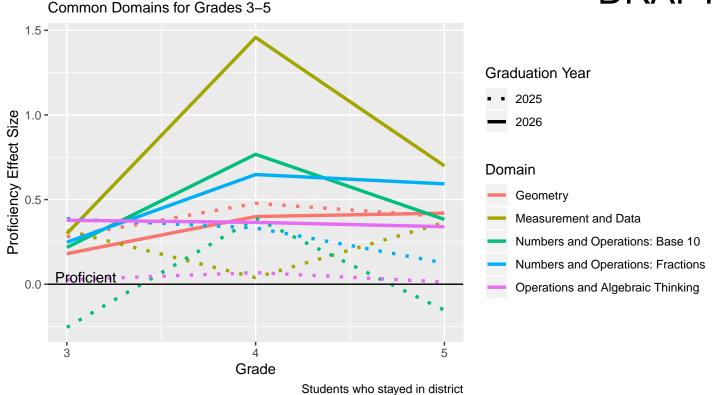




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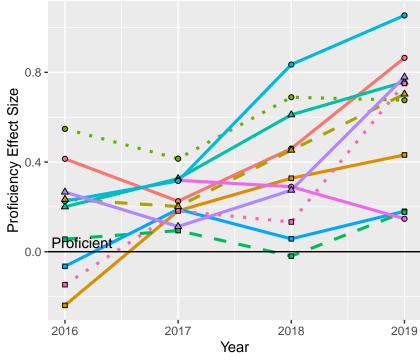
- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions: Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are
- not rational, and approximate them by rational numbers. Solve real-world and mathematical
- problems involving volume of cylinders, cones and spheres. Understand and apply the Pythagorean
- theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities. Work with radicals and integer
- exponents.

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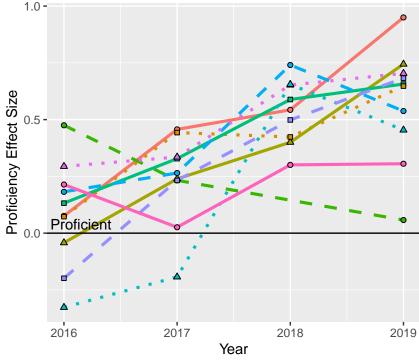




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- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
- estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four
- operations, and identify and explain patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
 Use place value understanding and
- properties of arithmetic to perform multi–digit arithmetic.

Grade 4 Target Performance



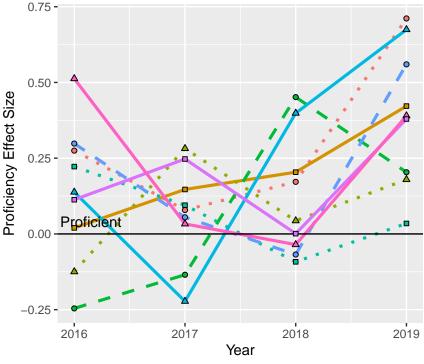
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- Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.
- Draw and identify lines and angles, and classify shapes by properties of their lines and angles.
- Extend understanding of fraction equivalence and ordering.
 Gain familiarity with factors and
- multiples.
 Generalize place value understandin
- Generalize place value understanding for multi–digit whole numbers.

 Solve problems involving measurement and
- conversion of measurements from a larger unit to a smaller unit.
- understand concepts of angle and measure angles.
- Understand decimal notation for fractions, and compare decimal fractions.
- Use place value understanding and properties of operations to perform multi-digit arithmetic.
 Use the four operations with whole
- Use the four operations with whol numbers to solve problems.

Grade 5 Target Performance

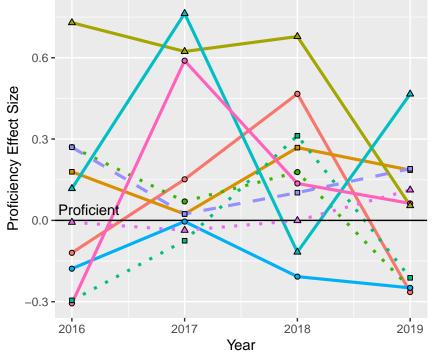


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- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two–dimensional figures into
- categories based on their properties.
 Convert like measurement units within a
- given measurement system.
 Graph points on the coordinate plane
- to solve real–world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance

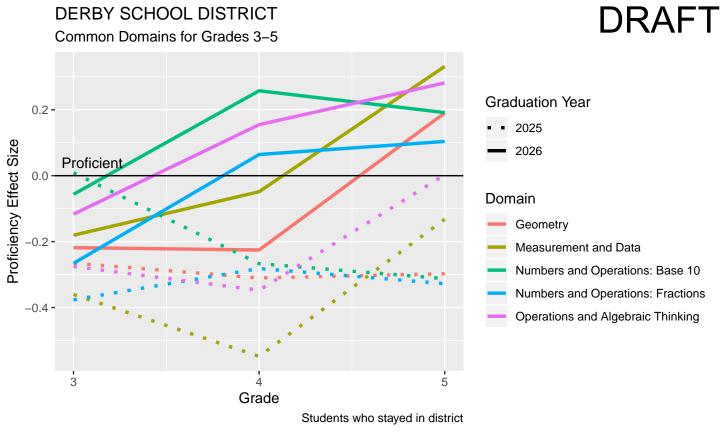


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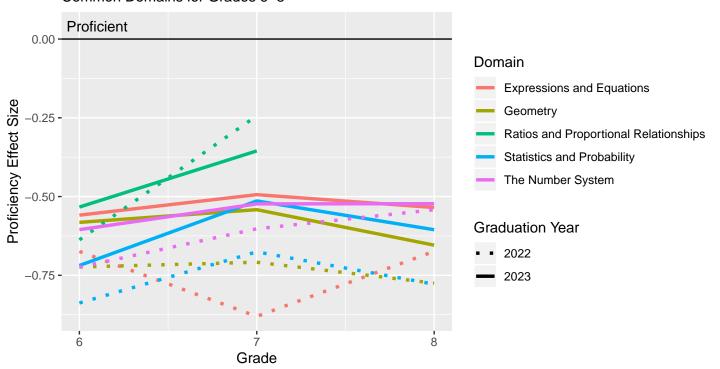
- Apply and extend previous understandings of arithmetic to algebraic expressions.

 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi-digit
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one-variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real–world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.



DERBY SCHOOL DISTRICT Common Domains for Grades 6–8

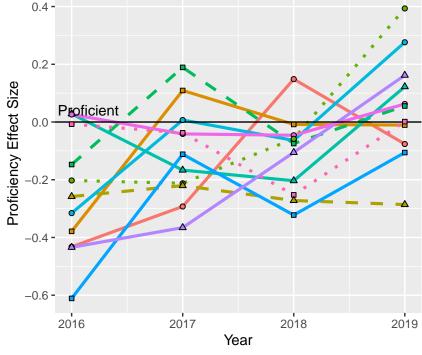




Students who stayed in district

DENDI SCHOOL DISTRIC





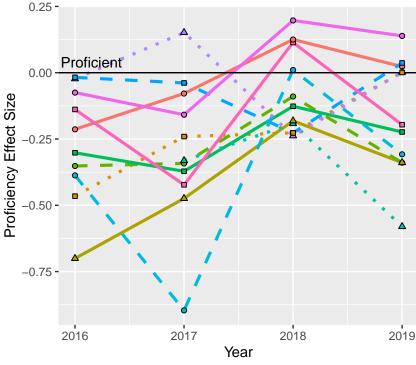
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DRAFT

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- A Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division.
- multiplication and division.
 Solve problems involving measurement and estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four
- operations, and identify and explain patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
 Use place value understanding and
- properties of arithmetic to perform multi–digit arithmetic.

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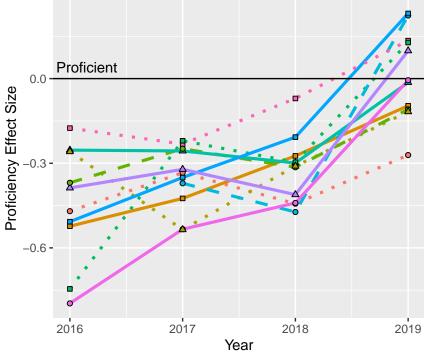


Target

- Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.
- Draw and identify lines and angles, and classify shapes by properties of their lines and angles.
- Extend understanding of fraction equivalence and ordering.
 Gain familiarity with factors and
- multiples.
 Generalize place value understanding for multi–digit whole numbers.
- Generate and analyze patterns.
 - Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.
 - understand concepts of angle and measure angles.
- Understand decimal notation for fractions, and compare decimal fractions.
- Use place value understanding and properties of operations to perform multi-digit arithmetic.
- Use the four operations with whole numbers to solve problems.

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Grade 5 Target Performance



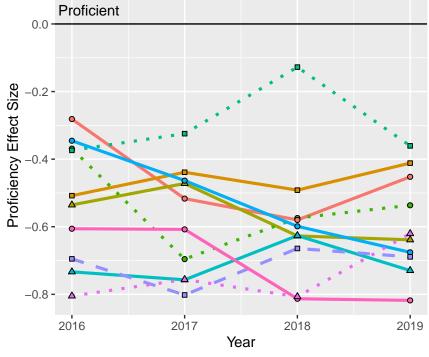
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- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two–dimensional figures into
- categories based on their properties.
 Convert like measurement units within a given measurement system.
- Graph points on the coordinate plane to solve real–world and mathematical
- problems.

 Perform operations with multi-digit
- whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance

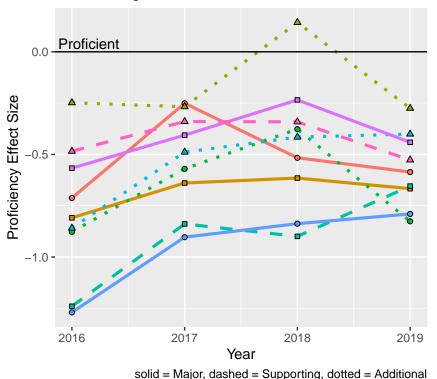


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- Apply and extend previous understandings of arithmetic to algebraic expressions. Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi–digit
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one-variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real—world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance

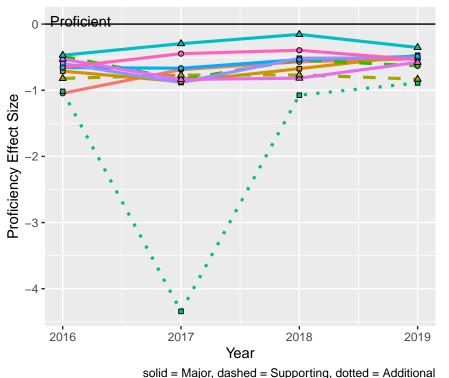


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- Analyze proportional relationships and use them to solve real–world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add,
- subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- • figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real–life and mathematical problems involving angle measure, area, surface area, and volume.
- Solve real-life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- Use random sampling to draw inference about a population.

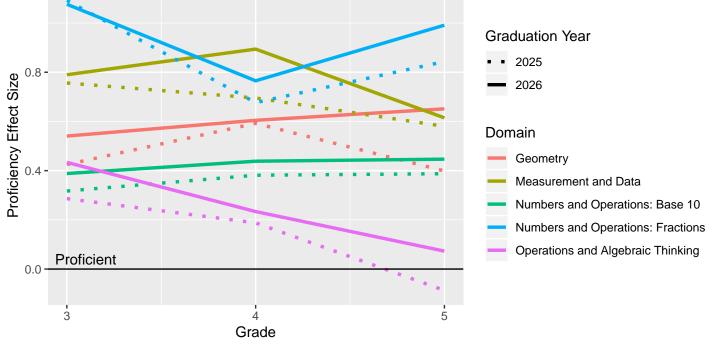
Grade 8 Target Performance



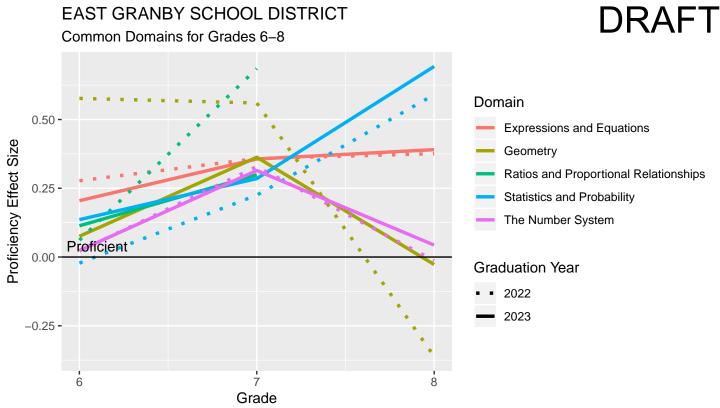


- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real—world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and intege exponents.

EAST GRANBY SCHOOL DISTRICT Common Domains for Grades 3–5 Craduation Veer

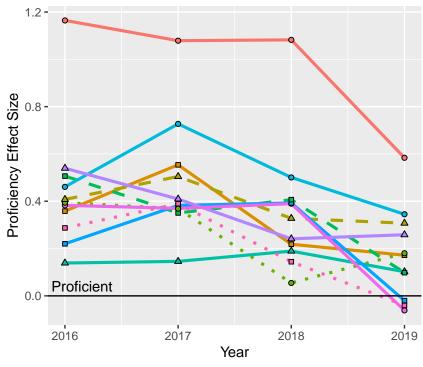


Students who stayed in district



Students who stayed in district

Grade 3 Target Performance

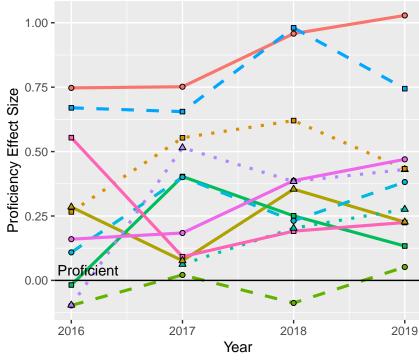


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DRAFT

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
 - estimation of intervals of time, liquid
- volumes, and masses of objects. Solve problems involving the four operations, and identify and explain
- patterns in arithmetic. Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi-digit arithmetic.

Grade 4 Target Performance



Target

Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.

DRAFT

Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

Extend understanding of fraction equivalence and ordering.
Gain familiarity with factors and

multiples.
Generalize place value understanding for multi–digit whole numbers.

Generate and analyze patterns.

 Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

understand concepts of angle and measure angles.

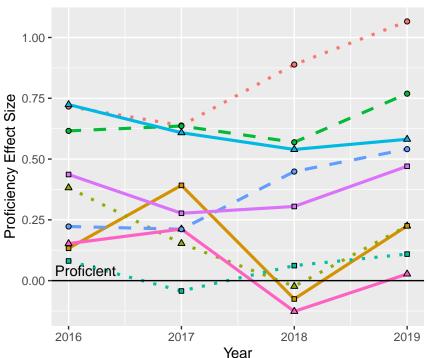
Understand decimal notation for fractions, and compare decimal fractions.

Use place value understanding and properties of operations to perform multi-digit arithmetic.

Use the four operations with whole numbers to solve problems.

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Grade 5 Target Performance



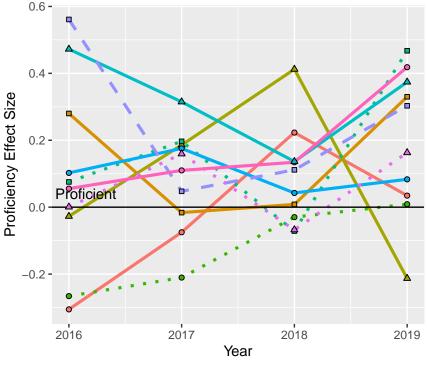
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DRAFT

- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.

 Classify two–dimensional figures into
- categories based on their properties.
 Convert like measurement units within a
- given measurement system.
 Graph points on the coordinate plane
- to solve real-world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
 - Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance



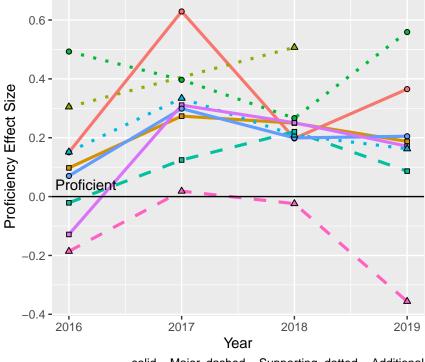
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- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers to the system of rational numbers.

 Compute fluently with multi–digit
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one–variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real–world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance



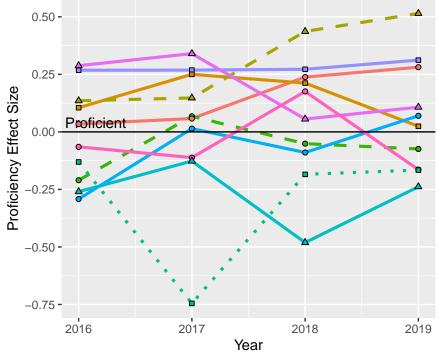
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DRAFT

- Analyze proportional relationships and use them to solve real-world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational
- numbers. Draw informal comparative inferences
- about two populations.
 Draw, construct and describe geometrical figures and describe the relationships
- between them. Investigate chance processes and
- develop, use, and evaluate probability models.
- Solve real-life and mathematical problems involving angle measure, area, surface area, and volume. Solve real-life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- about a population.

Grade 8 Target Performance

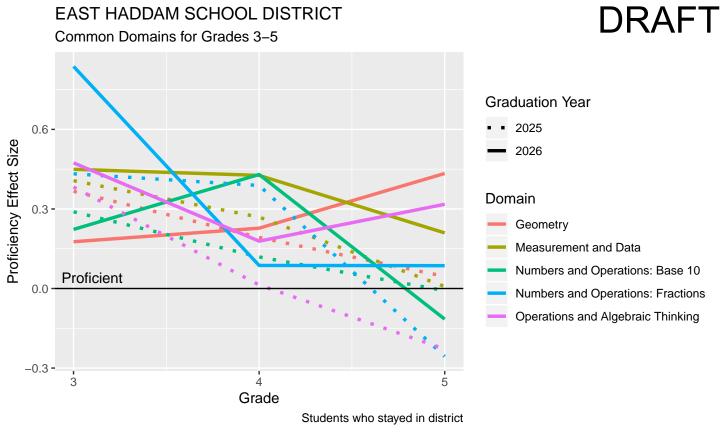


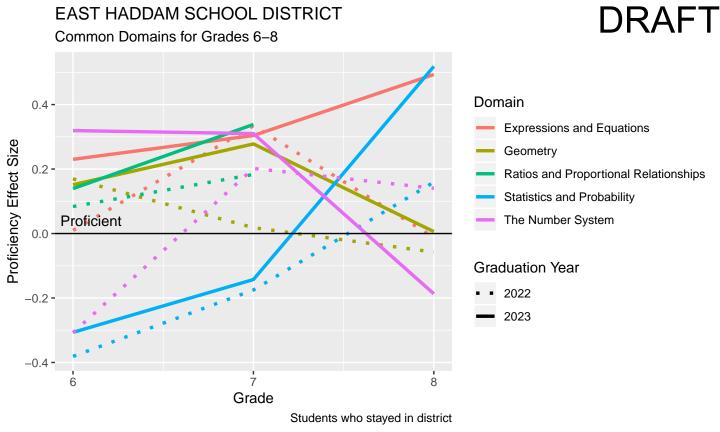


Target

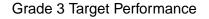
- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real-world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and integer exponents.

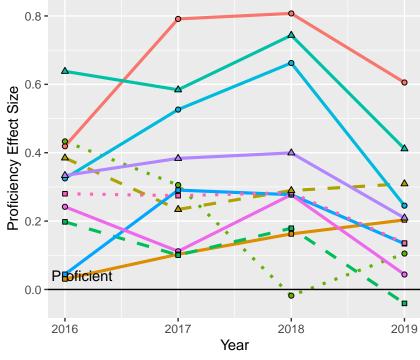
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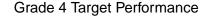


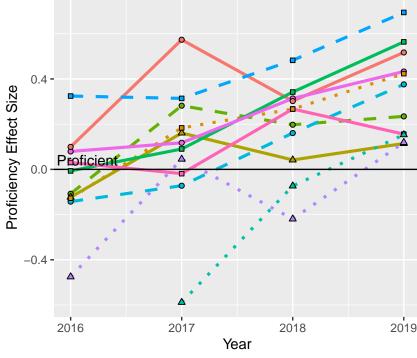


solid = Major, dashed = Supporting, dotted = Additional

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
- Solve problems involving measurement and estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four
- operations, and identify and explain patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi-digit arithmetic.

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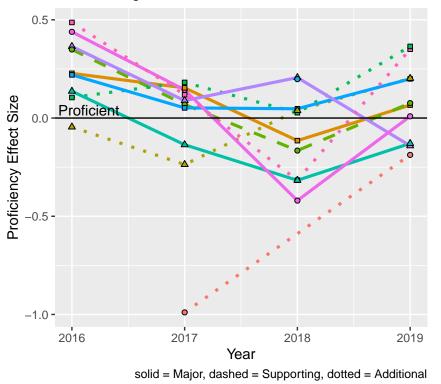


Target

- Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.
- Draw and identify lines and angles, and classify shapes by properties of their lines and angles.
- Extend understanding of fraction equivalence and ordering.
 Gain familiarity with factors and
- multiples.
 Generalize place value understanding for multi-digit whole numbers.
- Generate and analyze patterns.
 - Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.
- understand concepts of angle and measure angles.
- Understand decimal notation for fractions, and compare decimal fractions.
- Use place value understanding and properties of operations to perform multi-digit arithmetic.
 Use the four operations with whole
- Use the four operations with whole numbers to solve problems.

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Grade 5 Target Performance



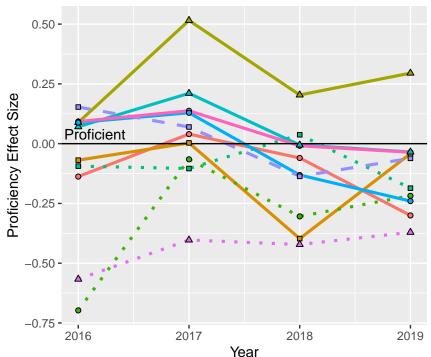
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- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two-dimensional figures into
- categories based on their properties.
 Convert like measurement units within a
- given measurement system.

 Graph points on the coordinate plane
- to solve real–world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance



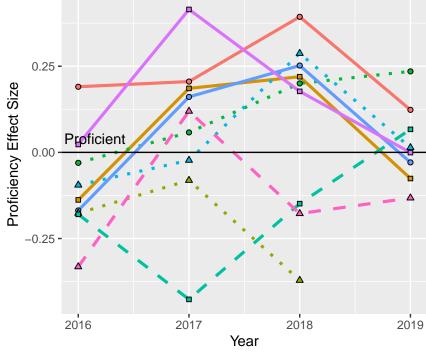


Target

- Apply and extend previous understandings of arithmetic to algebraic expressions. Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers. Compute fluently with multi-digit
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one-variable equations and inequalities. Represent and analyze quantitative
- relationships between dependent and independent variables. Solve real-world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

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Grade 7 Target Performance

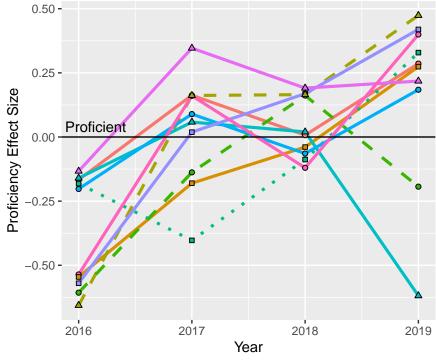


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- Analyze proportional relationships and use them to solve real-world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add,
- subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical problems involving angle measure, area, surface area, and volume.
- Solve real-life and mathematical problems using numerical and algebraic
- expressions and equations. Use properties of operations to generate
- equivalent expressions.
 Use random sampling to draw inferences
- about a population.

Grade 8 Target Performance



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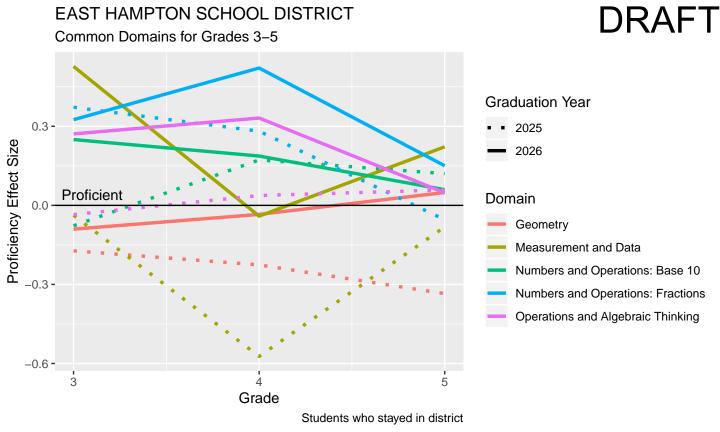
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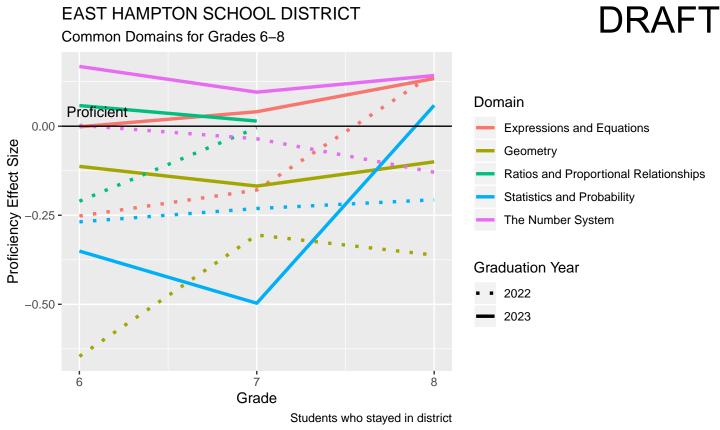
- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real–world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies,
- or geometry software.
 Understand the connections between proportional relationships, lines, and
- linear equations.

 Use functions to model relationships
- between quantities.

 Work with radicals and integer
- Work with radicals and integree exponents.

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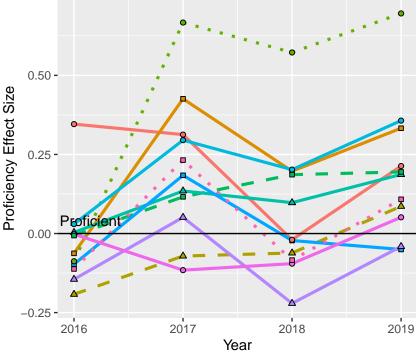




EAST HAMPTON SCHOOL DISTRICT

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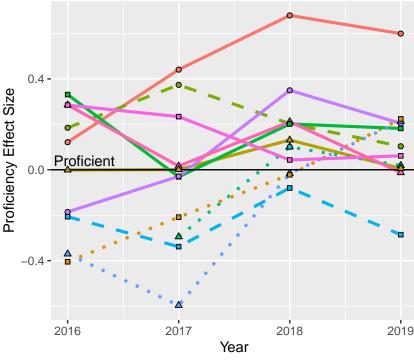




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- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division.
- Solve problems involving measurement and estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four
- operations, and identify and explain patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
 Use place value understanding and
- properties of arithmetic to perform multi–digit arithmetic.

Grade 4 Target Performance



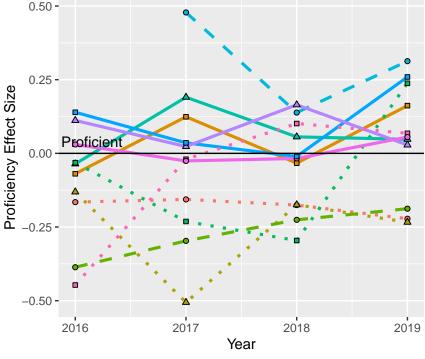
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Target

DRAFT

- Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.
- Draw and identify lines and angles, and classify shapes by properties of their lines and angles.
- Extend understanding of fraction equivalence and ordering. Gain familiarity with factors and
- multiples. Generalize place value understanding for
- multi-digit whole numbers.
- Generate and analyze patterns.
- Represent and interpret data.
- Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.
- understand concepts of angle and measure angles. Understand decimal notation for
- fractions, and compare decimal fractions.
- Use place value understanding and properties of operations to perform multi-digit arithmetic.
 Use the four operations with whole
- numbers to solve problems.

Grade 5 Target Performance

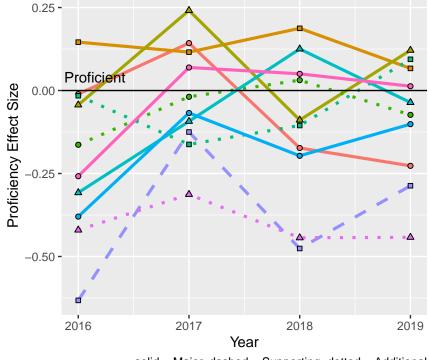


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DRAFT

- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two–dimensional figures into
- categories based on their properties.
 Convert like measurement units within a given measurement system.
- Graph points on the coordinate plane
- to solve real–world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance



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DRAFT

- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational numbers.
- Compute fluently with multi-digit numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one–variable equations and inequalities.
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- relationships between dependent and independent variables.
 Solve real–world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance



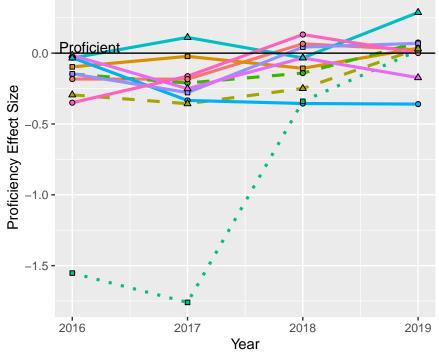
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DRAFT

- Analyze proportional relationships and use them to solve real-world and mathematical problems.
 - Apply and extend previous understandings of operations with fractions to add,
- subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical problems involving angle measure, area, surface area, and volume.
- Solve real-life and mathematical problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- about a population.

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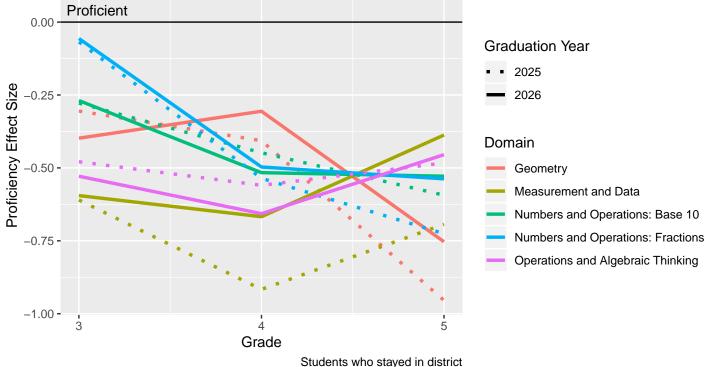
Target

- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions: Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
 - Solve real-world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities. Work with radicals and integer
- exponents.

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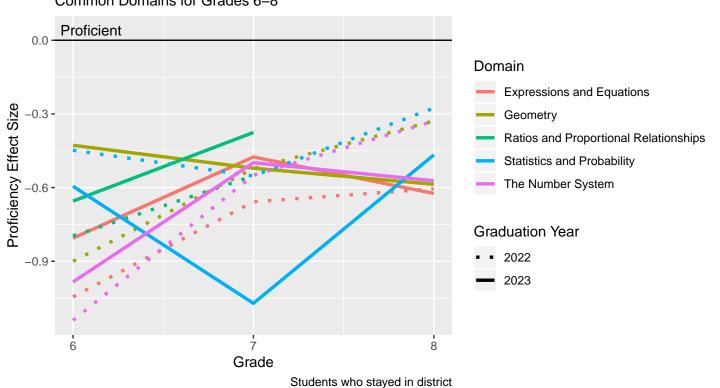




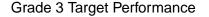


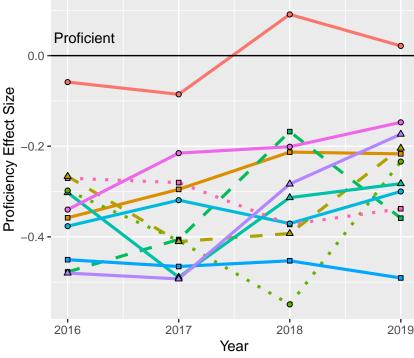
EAST HARTFORD SCHOOL DISTRICT Common Domains for Grades 6–8





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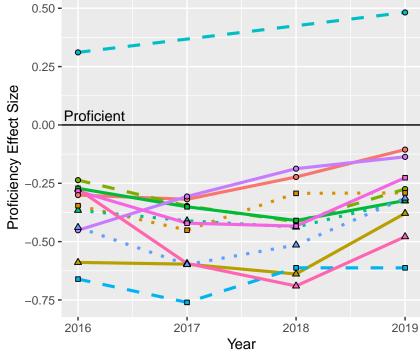




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- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division.
 Solve problems involving measurement and
 - Solve problems involving measurement and estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four
 operations, and identify and explain
- patterns in arithmetic.
 Understand concepts of area and relate area to multiplication and to addition.
 Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi–digit arithmetic.

Grade 4 Target Performance



solid = Major, dashed = Supporting, dotted = Additional

Target

DRAFT

Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.

Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

Extend understanding of fraction equivalence and ordering. Gain familiarity with factors and

multiples.

Generalize place value understanding for multi-digit whole numbers.

Generate and analyze patterns.

Represent and interpret data.

Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

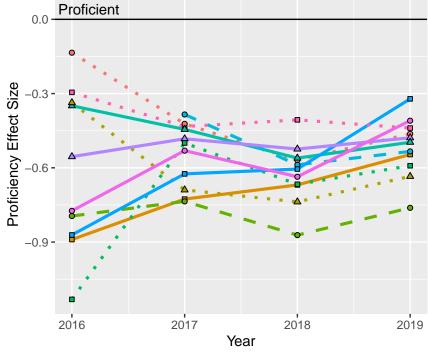
understand concepts of angle and measure angles. Understand decimal notation for

fractions, and compare decimal fractions.

Use place value understanding and properties of operations to perform multi-digit arithmetic.
Use the four operations with whole

numbers to solve problems.

Grade 5 Target Performance



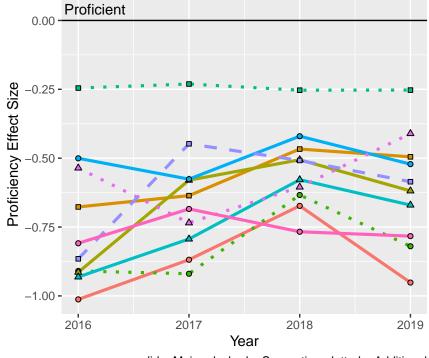
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DRAFT

- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two-dimensional figures into
- categories based on their properties.
 Convert like measurement units within a given measurement system.
- given measurement system.

 Graph points on the coordinate plane
- to solve real–world and mathematical problems.
 Perform operations with multi–digit
- whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance

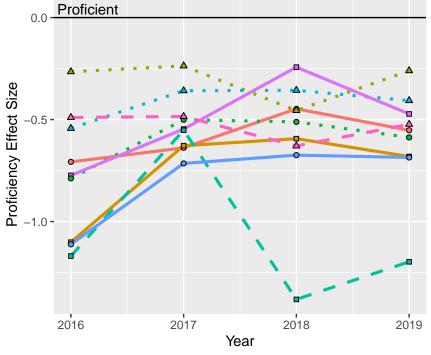


solid = Major, dashed = Supporting, dotted = Additional

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- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi-digit
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one-variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real–world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance



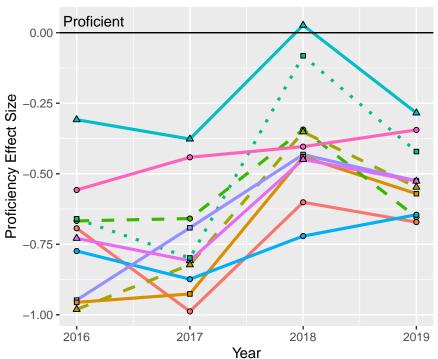
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Target

- Analyze proportional relationships and use them to solve real-world and mathematical problems.
 - Apply and extend previous understandings of operations with fractions to add,
- subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical problems involving angle measure, area, surface area, and volume.
- Solve real-life and mathematical problems using numerical and algebraic
- expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- about a population.

solid = Major, dashed = Supporting, dotted = Additional

Grade 8 Target Performance



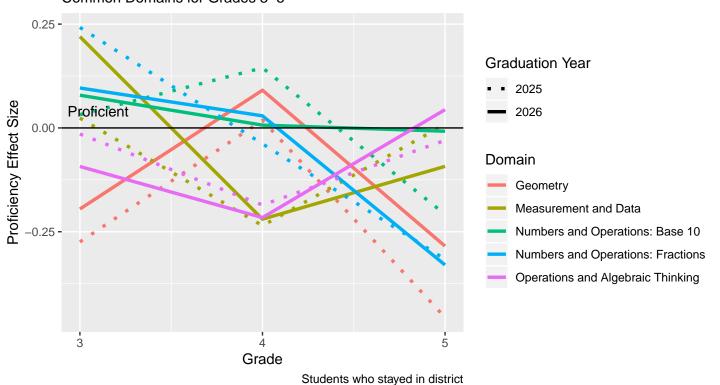
solid = Major, dashed = Supporting, dotted = Additional

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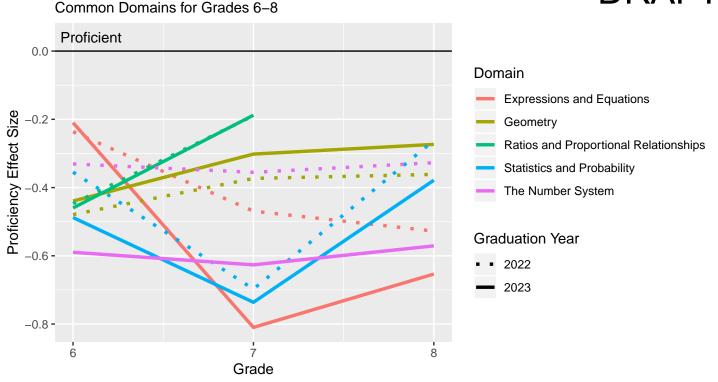
- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions: Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real–world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and integer exponents.

EAST HAVEN SCHOOL DISTRICT Common Domains for Grades 3-5





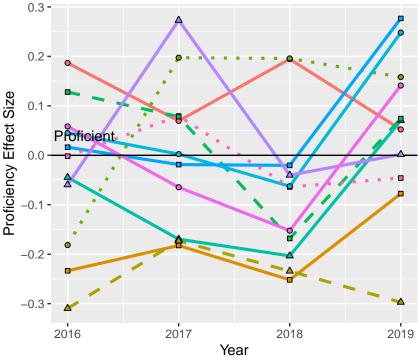
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Students who stayed in district

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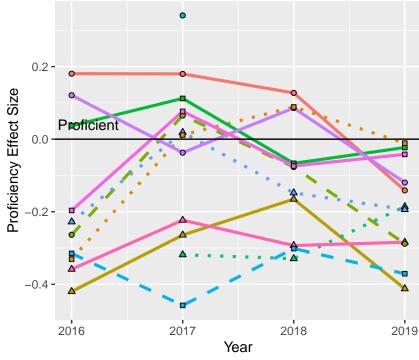




solid = Major, dashed = Supporting, dotted = Additional

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- A Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division.
- multiplication and division.
 Solve problems involving measurement and estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four
- operations, and identify and explain patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
 Use place value understanding and
- properties of arithmetic to perform multi–digit arithmetic.

Grade 4 Target Performance



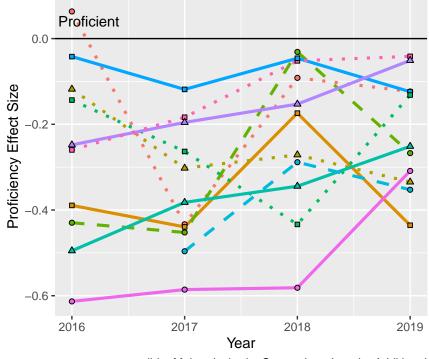
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Target

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- Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.
- Draw and identify lines and angles, and classify shapes by properties of their lines and angles.
- Extend understanding of fraction equivalence and ordering. Gain familiarity with factors and
- multiples. Generalize place value understanding for
- multi-digit whole numbers.
- Generate and analyze patterns.
- Represent and interpret data.
- Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.
- understand concepts of angle and measure angles. Understand decimal notation for
- fractions, and compare decimal fractions.
- Use place value understanding and properties of operations to perform multi-digit arithmetic.
 Use the four operations with whole
- numbers to solve problems.

Grade 5 Target Performance



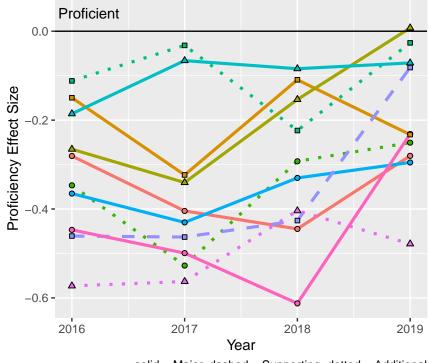
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- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two–dimensional figures into
- categories based on their properties.
 Convert like measurement units within a
- given measurement system.

 Graph points on the coordinate plane
- to solve real–world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
 - Understand concepts of volume and relate volume to multiplication and to addition.
 - Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance



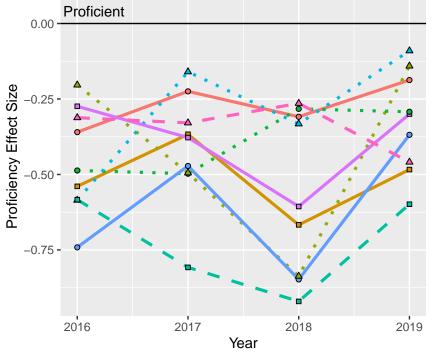
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Target

- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi-digit
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one-variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real–world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

solid = Major, dashed = Supporting, dotted = Additional

Grade 7 Target Performance



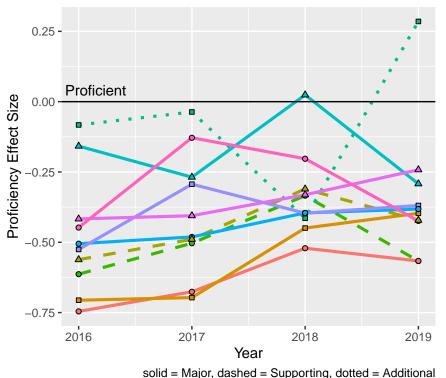
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DRAFT

- Analyze proportional relationships and use them to solve real—world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add,
- of operations with fractions to add, subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- • figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real–life and mathematical problems involving angle measure, area, surface area, and volume.
- Solve real-life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- Use random sampling to draw inference about a population.

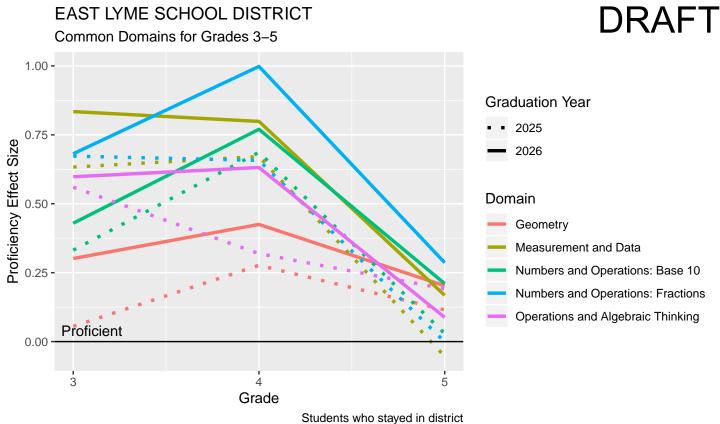
Grade 8 Target Performance

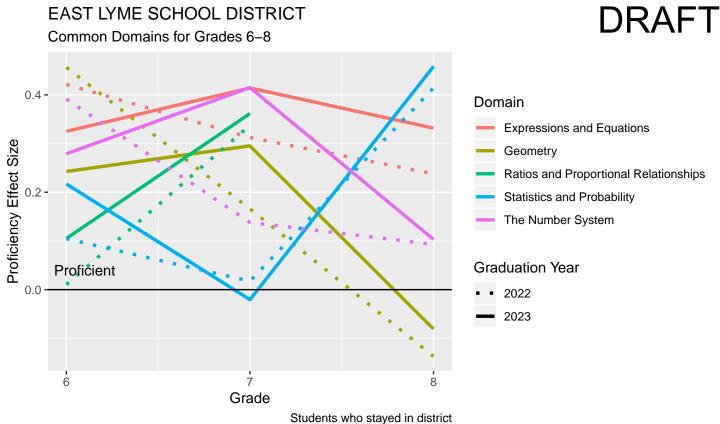




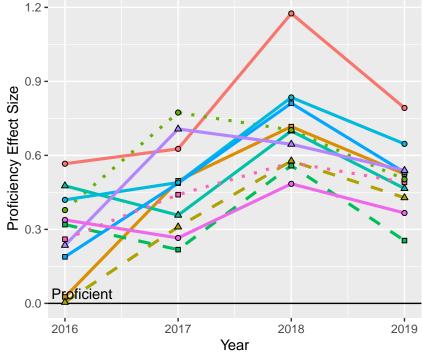
Target

- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real—world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and integer exponents.





Grade 3 Target Performance

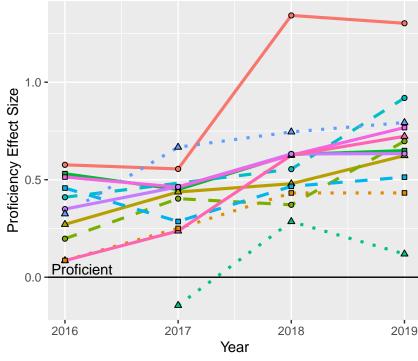


solid = Major, dashed = Supporting, dotted = Additional

DRAFT

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division.
 Solve problems involving measurement and
 - Solve problems involving measurement and
 estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four
 operations, and identify and explain
- patterns in arithmetic.
 Understand concepts of area and relate area to multiplication and to addition.
- Understand properties of multiplication and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi-digit arithmetic.

Grade 4 Target Performance



solid = Major, dashed = Supporting, dotted = Additional

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Target

Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.

Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

Extend understanding of fraction equivalence and ordering. Gain familiarity with factors and

multiples.

Generalize place value understanding for multi-digit whole numbers.

Generate and analyze patterns.

Represent and interpret data.

Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

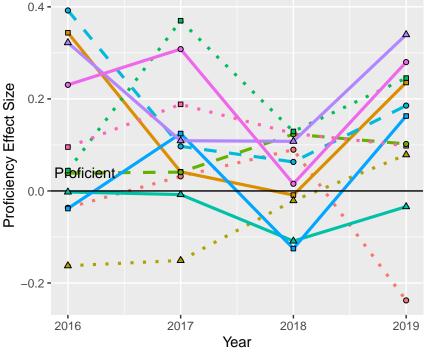
understand concepts of angle and measure angles. Understand decimal notation for

fractions, and compare decimal fractions. Use place value understanding and

properties of operations to perform multi-digit arithmetic.
Use the four operations with whole

numbers to solve problems.

Grade 5 Target Performance

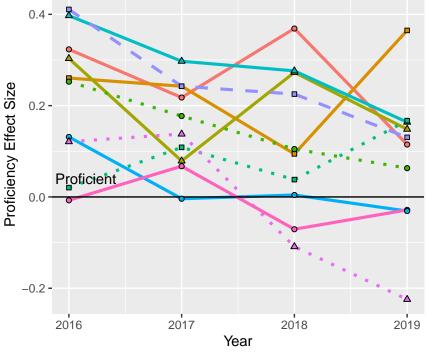


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- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two–dimensional figures into
- categories based on their properties.
 Convert like measurement units within a
- given measurement system.
 Graph points on the coordinate plane
- to solve real–world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance



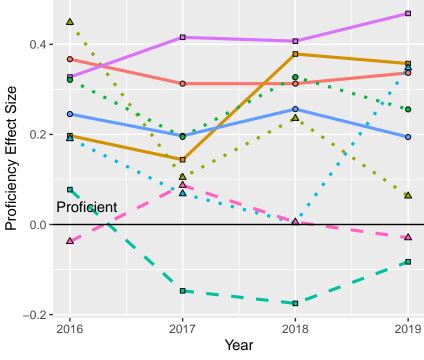
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Target

- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi-digit
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one–variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real–world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

solid = Major, dashed = Supporting, dotted = Additional

Grade 7 Target Performance



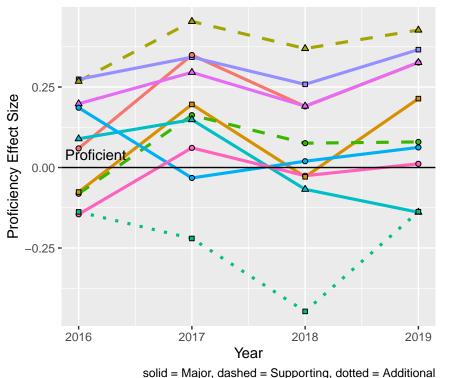
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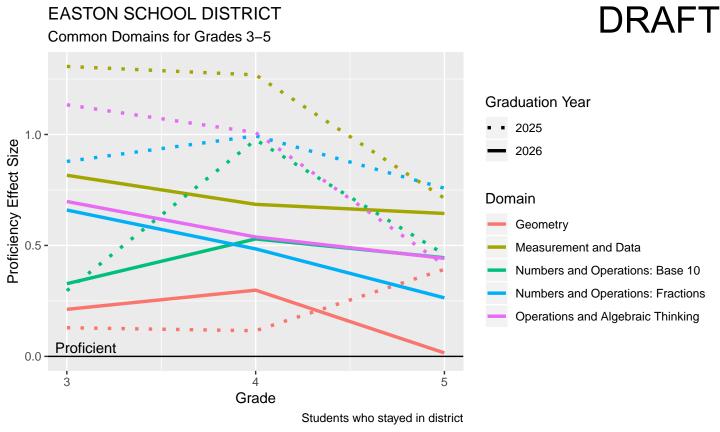
- Analyze proportional relationships and use them to solve real-world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add,
- subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical problems involving angle measure, area, surface area, and volume.
- Solve real-life and mathematical problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- about a population.

Grade 8 Target Performance



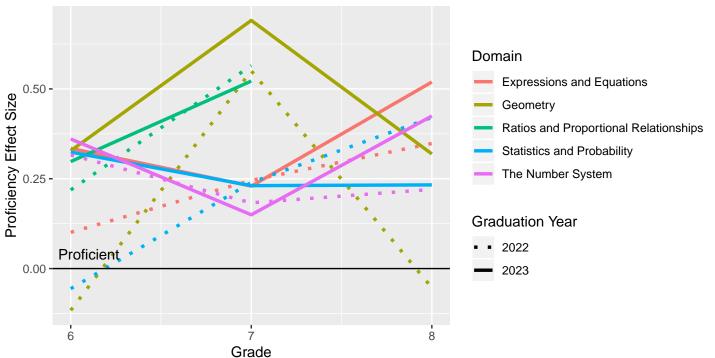


- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real—world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and integer exponents.



EASTON SCHOOL DISTRICT Common Domains for Grades 6–8

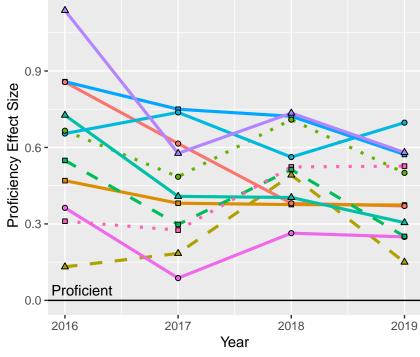
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Students who stayed in district

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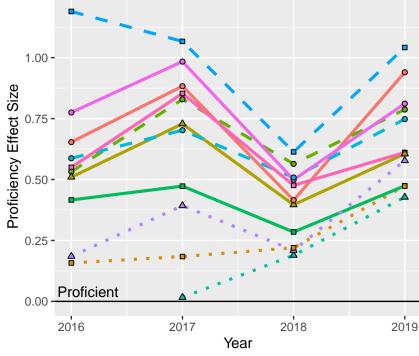




solid = Major, dashed = Supporting, dotted = Additional

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division.
 Solve problems involving measurement and
 - Solve problems involving measurement and estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four
- operations, and identify and explain patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi–digit arithmetic.

Grade 4 Target Performance



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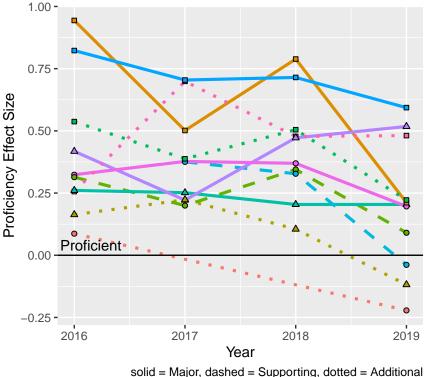
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- Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.
- Draw and identify lines and angles, and classify shapes by properties of their lines and angles.
- Extend understanding of fraction equivalence and ordering.
 Gain familiarity with factors and
- multiples.
 Generalize place value understanding for multi–digit whole numbers.
- Generate and analyze patterns.
 - Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.
- understand concepts of angle and measure angles.
- Understand decimal notation for fractions, and compare decimal fractions.
 Use place value understanding and
- o properties of operations to perform multi-digit arithmetic.

 Use the four operations with whole
- Use the four operations with whole numbers to solve problems.

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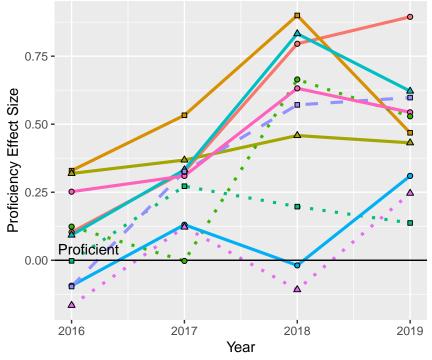




- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two-dimensional figures into
- categories based on their properties.
 Convert like measurement units within a
- given measurement system.
 Graph points on the coordinate plane
- to solve real–world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

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Grade 6 Target Performance



solid = Major, dashed = Supporting, dotted = Additional

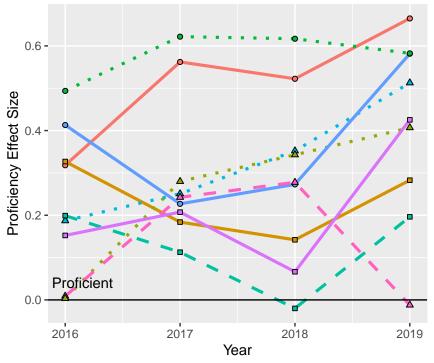
- Apply and extend previous understandings of arithmetic to algebraic expressions.

 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi–digit
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- multiples.

 Develop understanding of statistical variability.
- Reason about and solve one–variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real—world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

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Grade 7 Target Performance



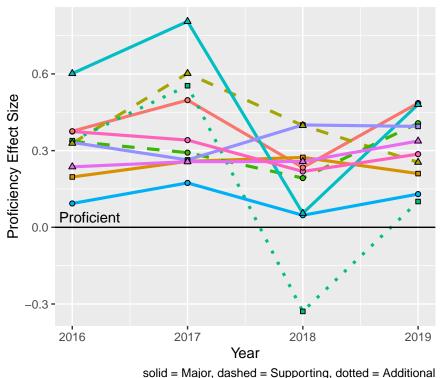
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- Analyze proportional relationships and use them to solve real—world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add,
- of operations with fractions to add, subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- • figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real–life and mathematical problems involving angle measure, area, surface area, and volume.
- Solve real–life and mathematical problems using numerical and algebraic
- expressions and equations.
 Use properties of operations to generate
- equivalent expressions.
 Use random sampling to draw inferences about a population.

EASTON SCHOOL DISTRICT

Grade 8 Target Performance

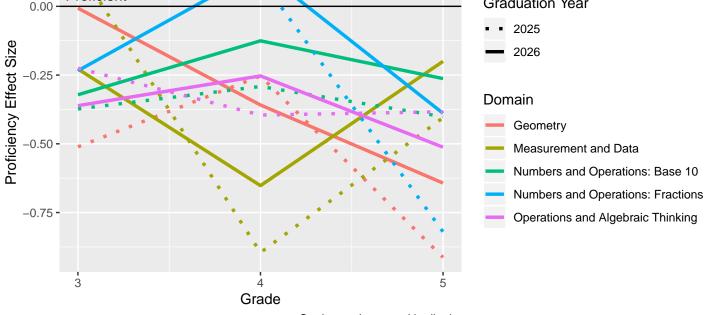




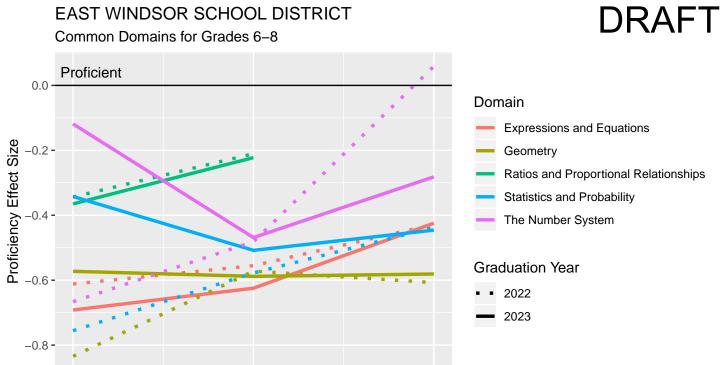
Target

- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real—world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and integree exponents.

EAST WINDSOR SCHOOL DISTRICT DRAFT Common Domains for Grades 3-5 **Proficient Graduation Year** 2025 2026 Domain Geometry



Students who stayed in district



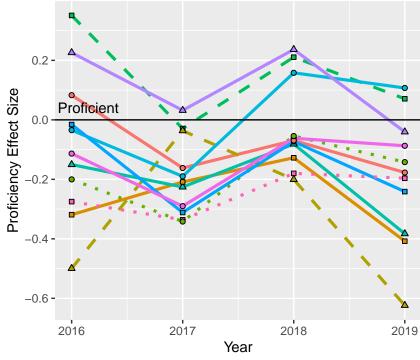
Students who stayed in district

Grade

6

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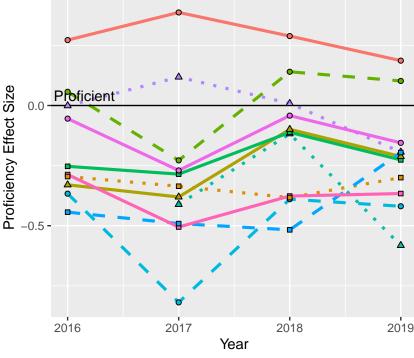


solid = Major, dashed = Supporting, dotted = Additional

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- A Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
- Solve problems involving measurement and estimation of intervals of time, liquid
- volumes, and masses of objects. Solve problems involving the four
- operations, and identify and explain patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition.
 Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi–digit arithmetic.

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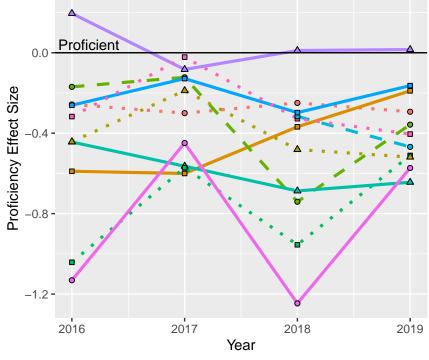




solid = Major, dashed = Supporting, dotted = Additional

- Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.
- Draw and identify lines and angles, and classify shapes by properties of their lines and angles.
- Extend understanding of fraction equivalence and ordering.
 Gain familiarity with factors and
- multiples.
 Generalize place value understanding for multi–digit whole numbers.
- Generate and analyze patterns.
 - Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.
 - understand concepts of angle and measure angles.
 - Understand decimal notation for fractions, and compare decimal fractions.
 Use place value understanding and
 - properties of operations to perform multi-digit arithmetic.
 Use the four operations with whole
- Use the four operations with whole numbers to solve problems.

Grade 5 Target Performance



solid = Major, dashed = Supporting, dotted = Additional

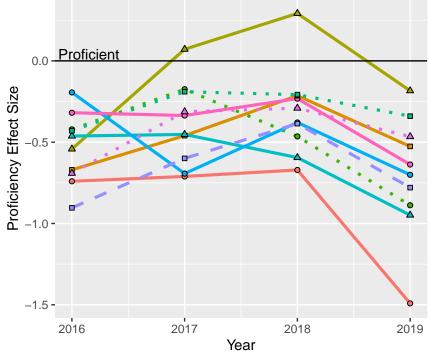
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- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two–dimensional figures into
- categories based on their properties.
 Convert like measurement units within a
- given measurement system.

 Graph points on the coordinate plane
- to solve real–world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

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Grade 6 Target Performance



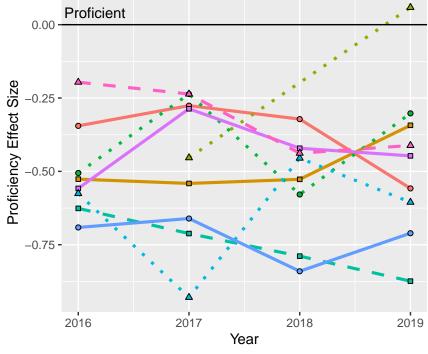
Target

numbers.

- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- Compute fluently with multi-digit numbers and find common factors and
- multiples.
 Develop understanding of statistical variability.
- Reason about and solve one–variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real—world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

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Grade 7 Target Performance



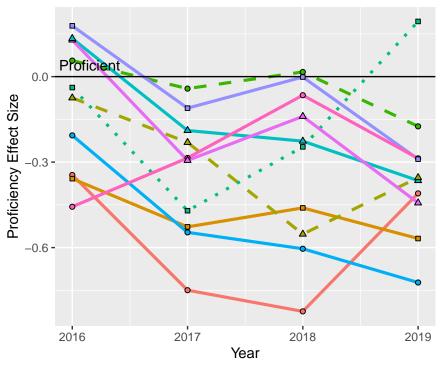
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- Analyze proportional relationships and use them to solve real-world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add,
- subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
 - Investigate chance processes and develop, use, and evaluate probability models.
 - Solve real-life and mathematical
- problems involving angle measure, area, surface area, and volume. Solve real-life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- about a population.

Grade 8 Target Performance



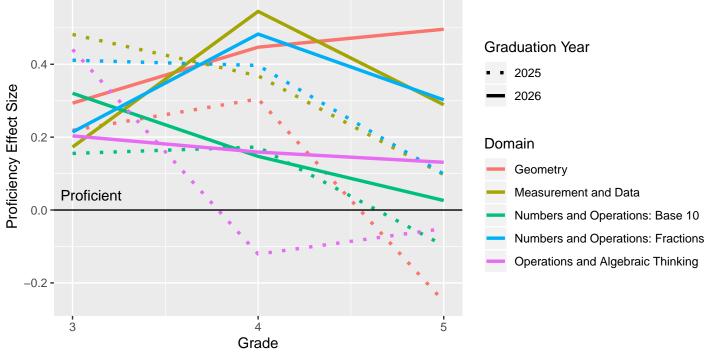


Target

- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real—world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and intege exponents.

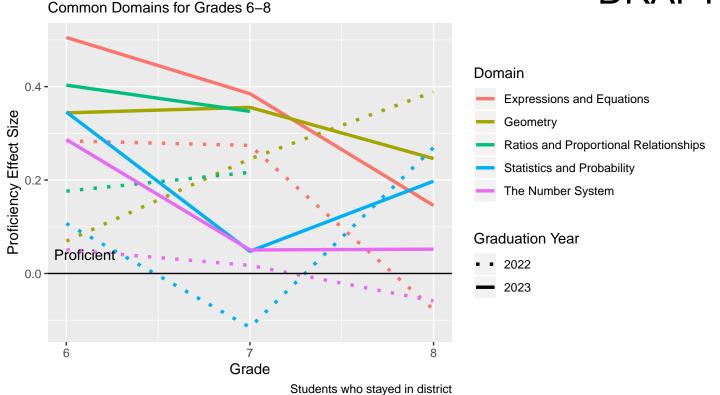
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ELLINGTON SCHOOL DISTRICT Common Domains for Grades 3–5 DRAFT

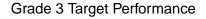


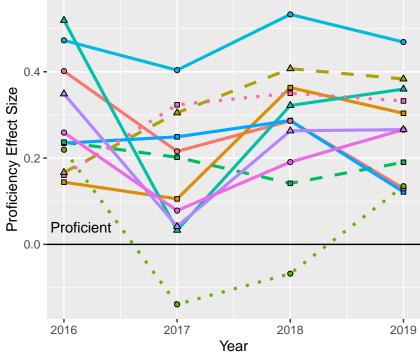
Students who stayed in district

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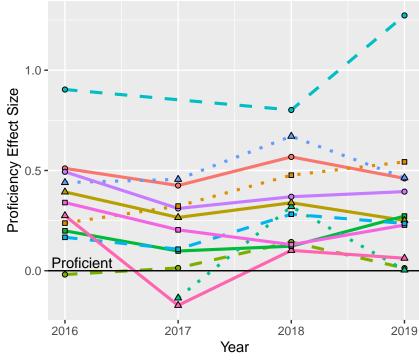




solid = Major, dashed = Supporting, dotted = Additional

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- A Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
 - Solve problems involving measurement and estimation of intervals of time, liquid
- volumes, and masses of objects. Solve problems involving the four
- operations, and identify and explain patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi-digit arithmetic.

Grade 4 Target Performance



solid = Major, dashed = Supporting, dotted = Additional

Target

DRAFT

Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.

Draw and identify lines and angles, and classify shapes by properties of their

lines and angles. Extend understanding of fraction equivalence and ordering. Gain familiarity with factors and

multiples.

Generalize place value understanding for multi-digit whole numbers.

Generate and analyze patterns.

Represent and interpret data.

Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

understand concepts of angle and measure angles. Understand decimal notation for

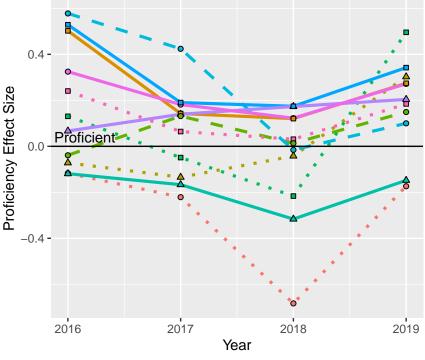
fractions, and compare decimal fractions. Use place value understanding and

properties of operations to perform multi-digit arithmetic.
Use the four operations with whole

numbers to solve problems.

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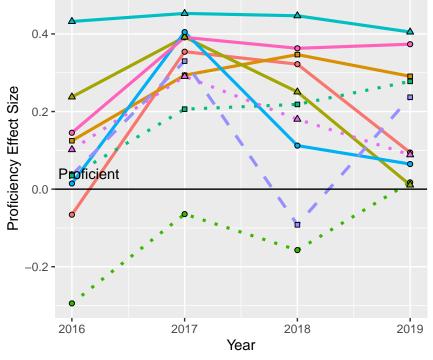


solid = Major, dashed = Supporting, dotted = Additional

- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two–dimensional figures into
- categories based on their properties.
 Convert like measurement units within a
- given measurement system.
 Graph points on the coordinate plane
- to solve real–world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

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Grade 6 Target Performance

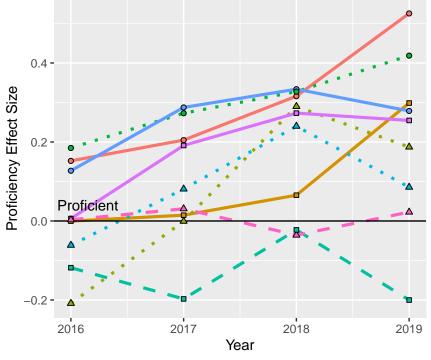


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- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi-digit
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one–variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real–world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

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Grade 7 Target Performance

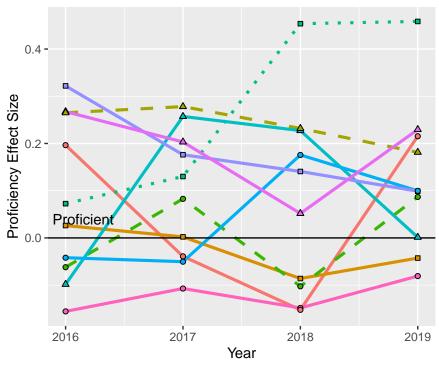


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- Analyze proportional relationships and use them to solve real-world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add,
- subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical problems involving angle measure, area, surface area, and volume.
- Solve real-life and mathematical problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- about a population.

Grade 8 Target Performance

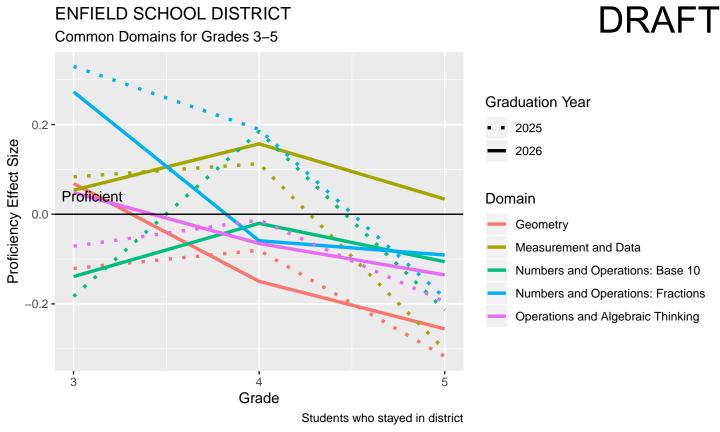


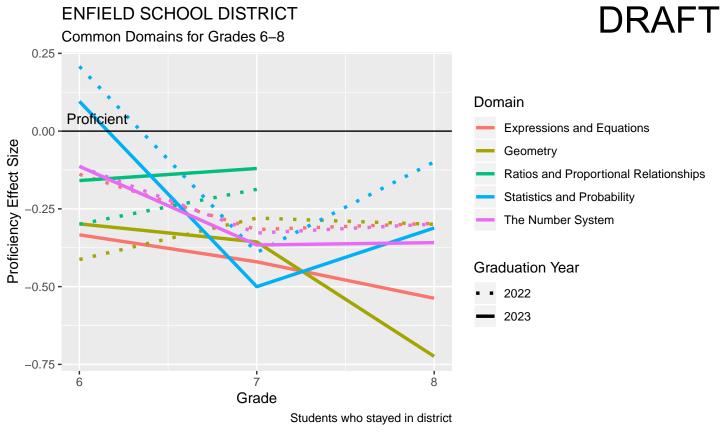


Target

- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions: Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
 - Solve real-world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and integer exponents.

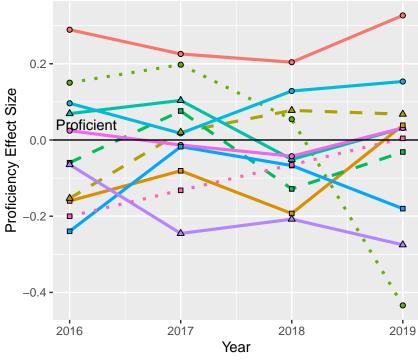
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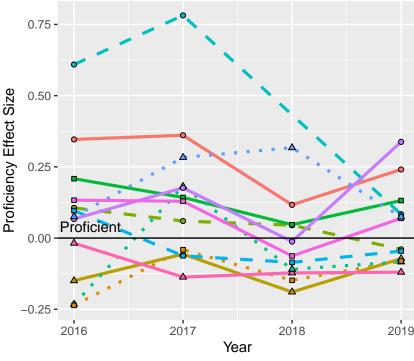


Target

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
 - estimation of intervals of time, liquid
- volumes, and masses of objects. Solve problems involving the four operations, and identify and explain
- patterns in arithmetic. Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi-digit arithmetic.

solid = Major, dashed = Supporting, dotted = Additional

Grade 4 Target Performance



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Target

Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.

 Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

Extend understanding of fraction equivalence and ordering.

Gain familiarity with factors and multiples.

Generalize place value understanding for multi–digit whole numbers.

Generate and analyze patterns.

Represent and interpret data.

 Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

understand concepts of angle and measure angles.
Understand decimal notation for

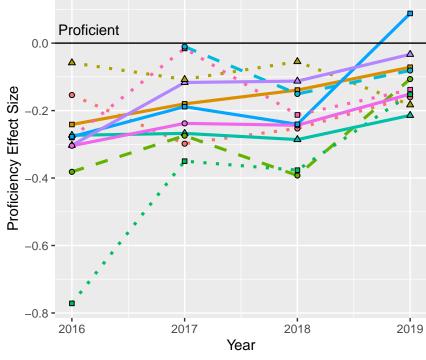
fractions, and compare decimal fractions.

Use place value understanding and properties of operations to perform multi-digit arithmetic.
Use the four operations with whole

Use the four operations with whole numbers to solve problems.

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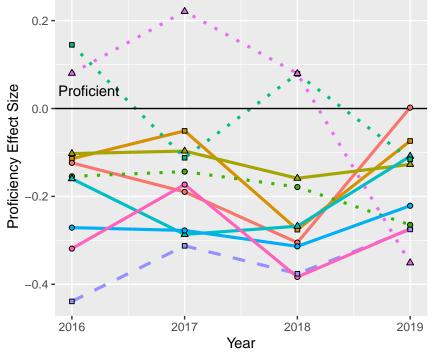




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- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two–dimensional figures into
- categories based on their properties.
 Convert like measurement units within a
- given measurement system.
 Graph points on the coordinate plane
- to solve real–world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance

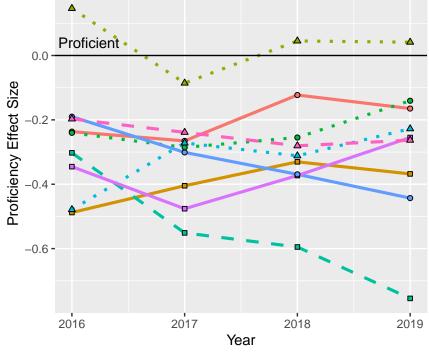


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- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi–digit
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one-variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real–world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance

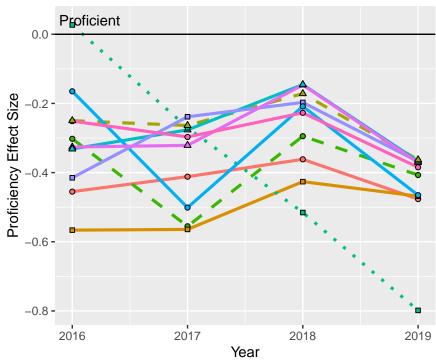


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- Analyze proportional relationships and use them to solve real-world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add,
- subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical problems involving angle measure, area,
- surface area, and volume. Solve real-life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- about a population.

Grade 8 Target Performance

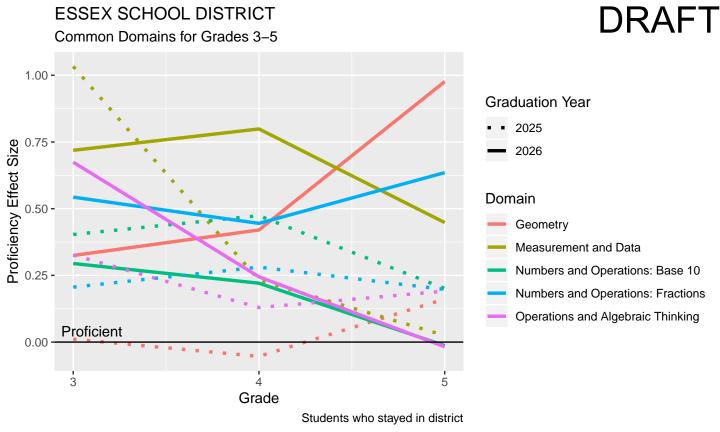


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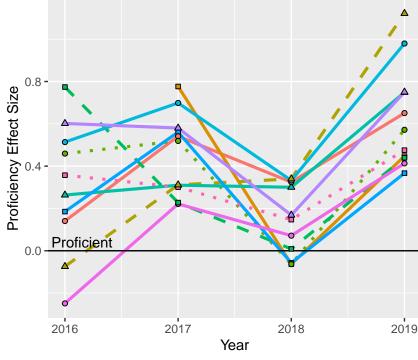
Target

- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real—world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and integer exponents.

solid = Major, dashed = Supporting, dotted = Additional



Grade 3 Target Performance

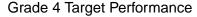


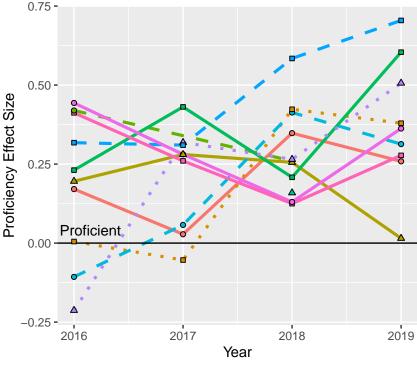
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DRAFT

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division.
- multiplication and division.
 Solve problems involving measurement and estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four
- operations, and identify and explain patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
 Use place value understanding and
- properties of arithmetic to perform multi–digit arithmetic.

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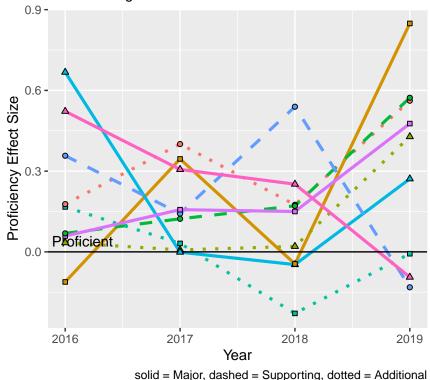
Target

- Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.
- Draw and identify lines and angles, and classify shapes by properties of their lines and angles.
- Extend understanding of fraction equivalence and ordering.
 Gain familiarity with factors and
- multiples.
 Generalize place value understanding for multi-digit whole numbers.
- Generate and analyze patterns.
 - Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.
- understand concepts of angle and measure angles.
- Understand decimal notation for fractions, and compare decimal fractions.
 Use place value understanding and
- properties of operations to perform multi-digit arithmetic.
- Use the four operations with whole numbers to solve problems.

solid = Major, dashed = Supporting, dotted = Additional

Grade 5 Target Performance





Target

Apply and extend previous understandings of multiplication and division to multiply and divide fractions.

Classify two–dimensional figures into categories based on their properties. Convert like measurement units within a

given measurement system.
Graph points on the coordinate plane

to solve real–world and mathematical problems.

Perform operations with multi-digit whole numbers and with decimals to hundredths.

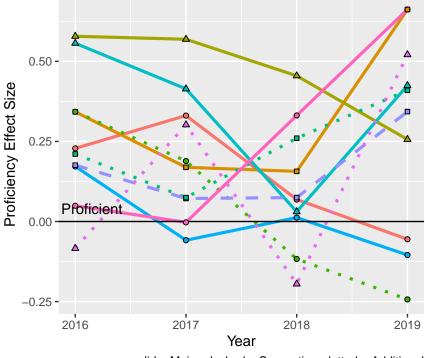
 Understand concepts of volume and relate volume to multiplication and to addition.

Understand the place value system.

Use equivalent fractions as a strategy to add and subtract fractions.

Write and interpret numerical expressions.

Grade 6 Target Performance



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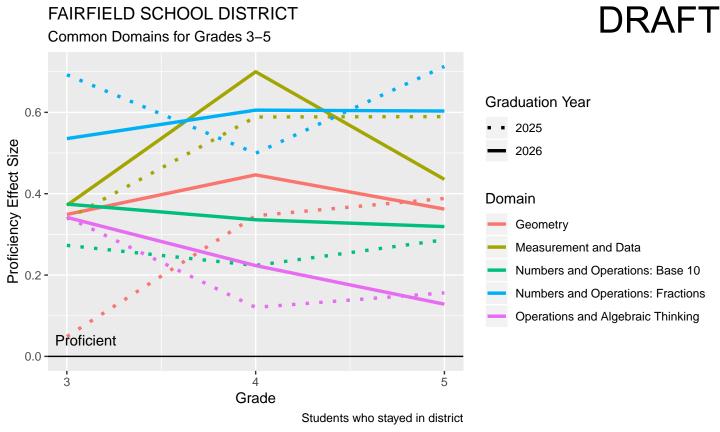
Target

- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi–digit
 numbers and find common factors and
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.

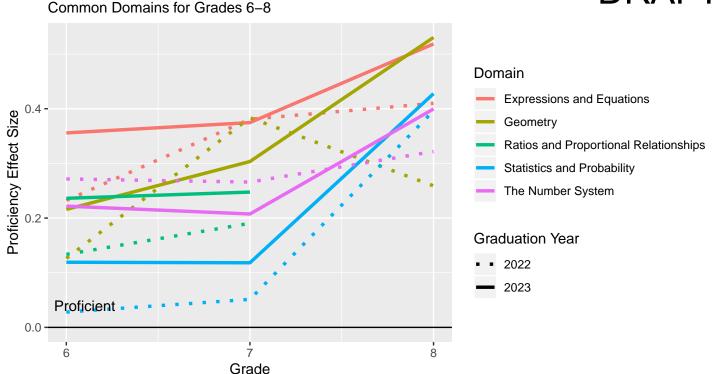
 Reason about and solve one–variable
- equations and inequalities.

 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real–world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

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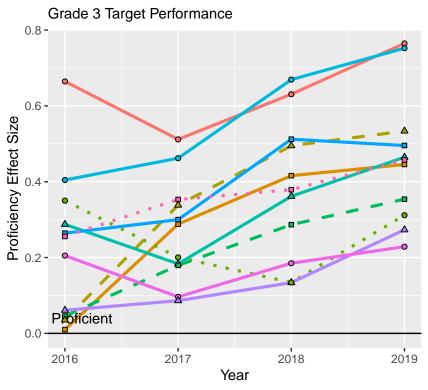






Students who stayed in district

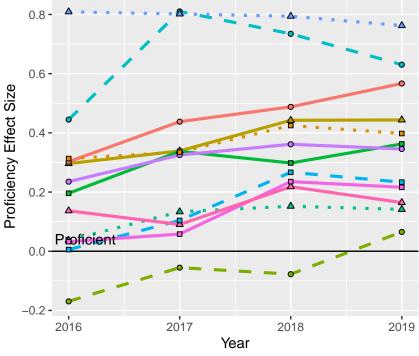
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- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division.
 Solve problems involving measurement and
 - Solve problems involving measurement and
 estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four
- operations, and identify and explain patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition.
 Understand properties of multiplication
- and the relationship between multiplication and division.
 Use place value understanding and
- properties of arithmetic to perform multi–digit arithmetic.

Grade 4 Target Performance



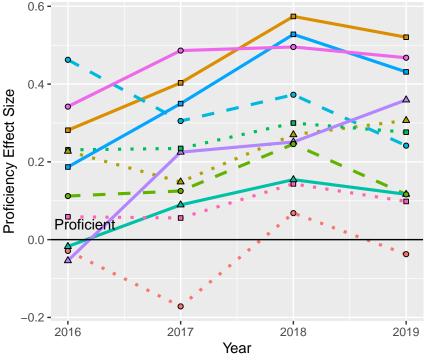
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Target

DRAFT

- Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.
- Draw and identify lines and angles, and classify shapes by properties of their lines and angles.
- Extend understanding of fraction equivalence and ordering. Gain familiarity with factors and
- multiples. Generalize place value understanding for
- multi-digit whole numbers.
- Generate and analyze patterns.
- Represent and interpret data.
- Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.
- understand concepts of angle and measure angles. Understand decimal notation for
- fractions, and compare decimal fractions.
- Use place value understanding and properties of operations to perform multi-digit arithmetic.
 Use the four operations with whole
- numbers to solve problems.

Grade 5 Target Performance



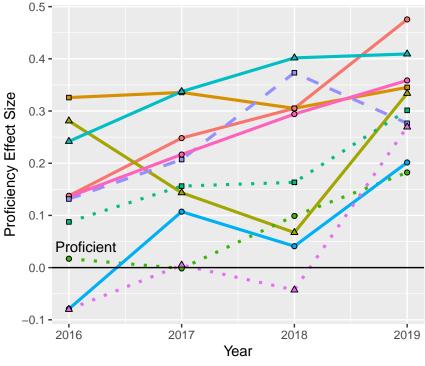
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DRAFT

- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two–dimensional figures into
- categories based on their properties.
 Convert like measurement units within a
- given measurement system.

 Graph points on the coordinate plane
- to solve real–world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance



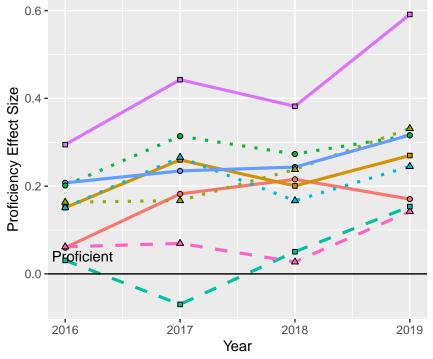
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- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi-digit
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one-variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real–world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

FAIRFIELD SCHOOL DISTRICT

Grade 7 Target Performance



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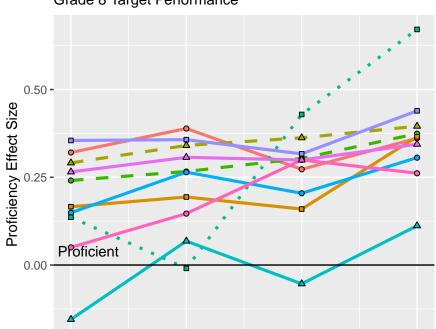
- Analyze proportional relationships
 and use them to solve real–world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational
- numbers.
 Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- Draw, construct and describe geometrica figures and describe the relationships
- between them.
 Investigate chance processes and
- develop, use, and evaluate probability models.

 Solve real–life and mathematical
- problems involving angle measure, area, surface area, and volume.
 Solve real-life and mathematical
- o problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- Use random sampling to draw inference about a population.

FAIRFIELD SCHOOL DISTRICT

Grade 8 Target Performance

2016



2017

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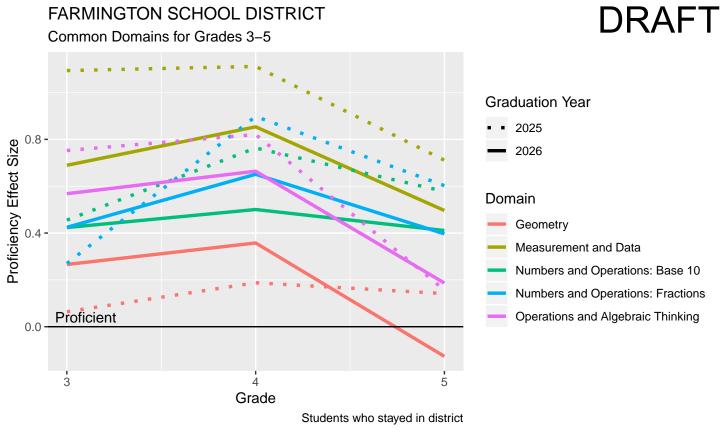
Year

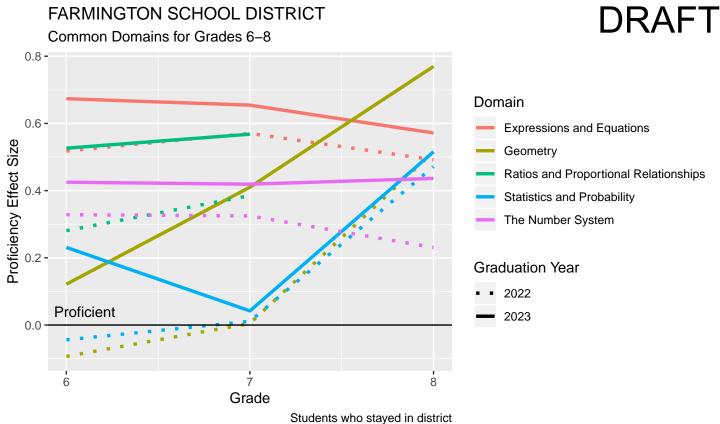
2018

2019

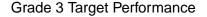
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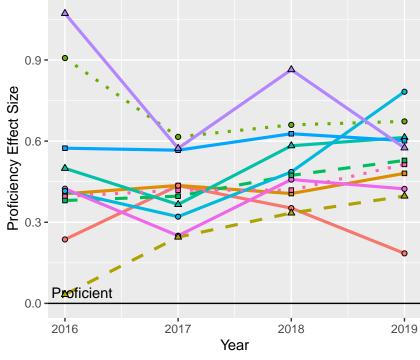
- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions: Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real—world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and integer exponents.





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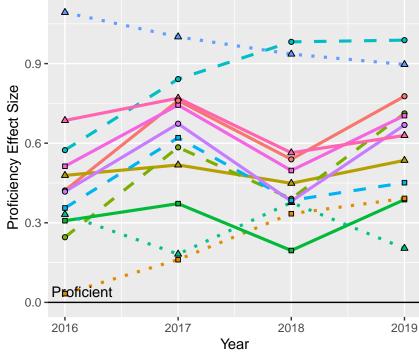




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- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division.
 Solve problems involving measurement and
 - solve problems involving measurement and estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four
 operations, and identify and explain
- patterns in arithmetic.
 Understand concepts of area and relate area to multiplication and to addition.
 Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi-digit arithmetic.

Grade 4 Target Performance



solid = Major, dashed = Supporting, dotted = Additional

Target

DRAFT

Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.

Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

Extend understanding of fraction equivalence and ordering. Gain familiarity with factors and

multiples.

Generalize place value understanding for multi-digit whole numbers.

Generate and analyze patterns.

Represent and interpret data.

Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

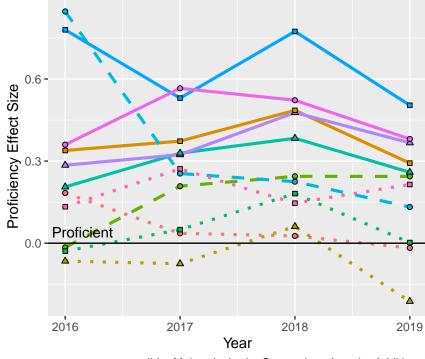
understand concepts of angle and measure angles. Understand decimal notation for

fractions, and compare decimal fractions.

Use place value understanding and properties of operations to perform multi-digit arithmetic.
Use the four operations with whole

numbers to solve problems.

Grade 5 Target Performance

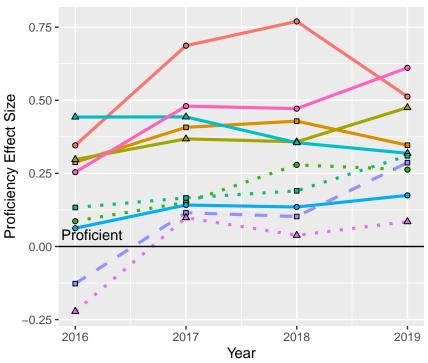


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- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two–dimensional figures into
- categories based on their properties.
 Convert like measurement units within a
- given measurement system.
 Graph points on the coordinate plane
- to solve real-world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance



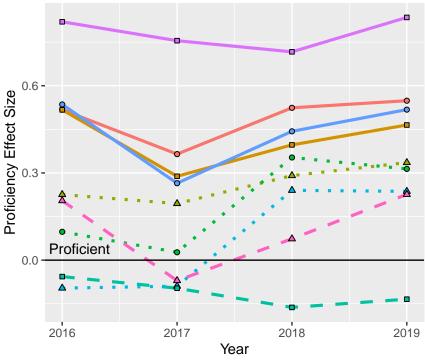
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Target

- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi–digit
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one-variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real–world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

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Grade 7 Target Performance



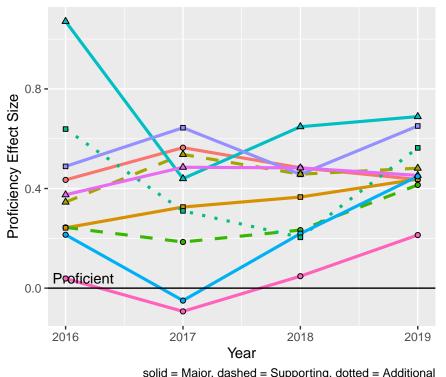
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- Analyze proportional relationships and use them to solve real-world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical problems involving angle measure, area,
- surface area, and volume. Solve real-life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- about a population.

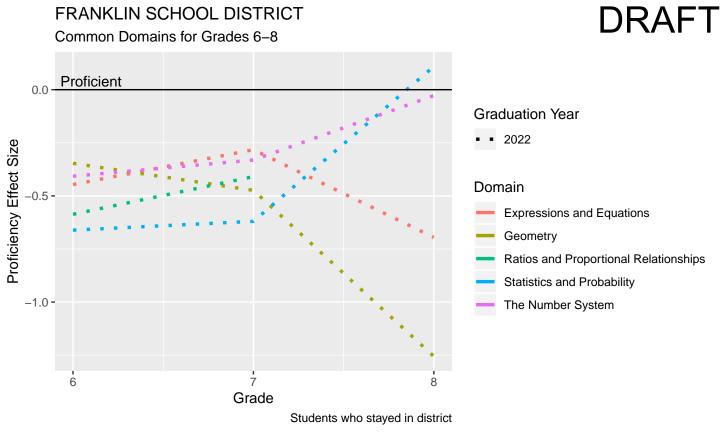
Grade 8 Target Performance





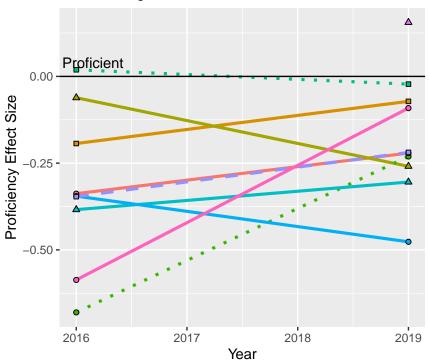
Target

- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
 - Solve real-world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and intege exponents.



FRANKLIN SCHOOL DISTRICT

Grade 6 Target Performance



DRAFT

Target

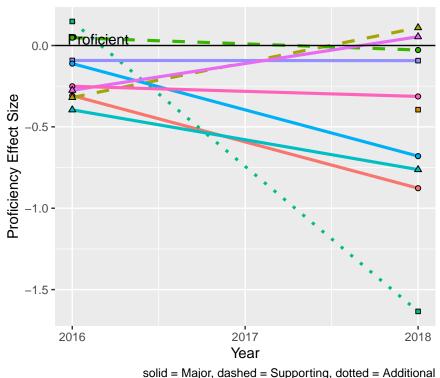
- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi–digit
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one-variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real-world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

solid = Major, dashed = Supporting, dotted = Additional

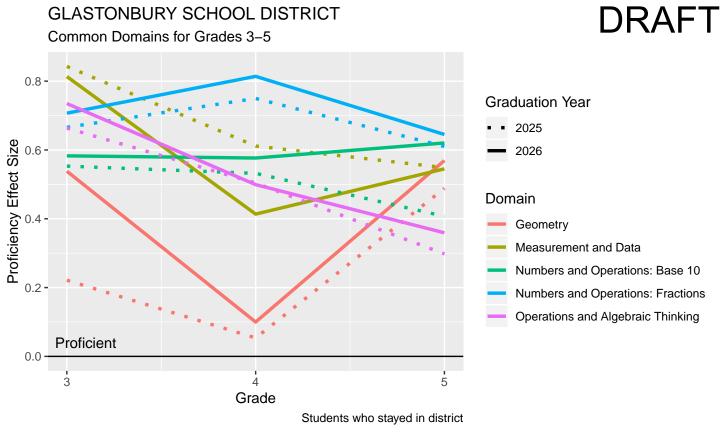
FRANKLIN SCHOOL DISTRICT

Grade 8 Target Performance



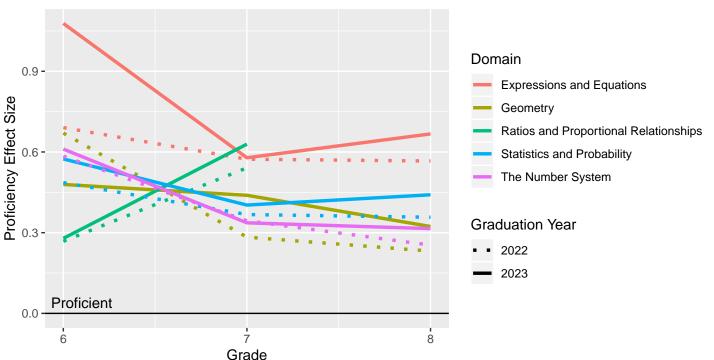


- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real–world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and integer exponents.



GLASTONBURY SCHOOL DISTRICT Common Domains for Grades 6–8

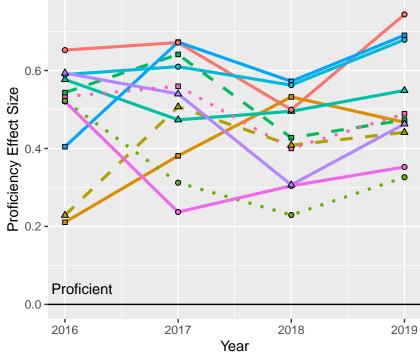




Students who stayed in district

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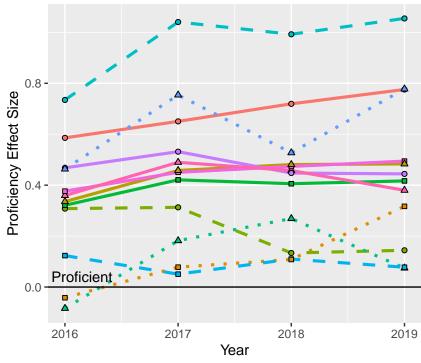




solid = Major, dashed = Supporting, dotted = Additional

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
- estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four
 operations, and identify and explain
- patterns in arithmetic.
 Understand concepts of area and relate area to multiplication and to addition.
 Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi-digit arithmetic.

Grade 4 Target Performance



solid = Major, dashed = Supporting, dotted = Additional

Target

DRAFT

Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.

Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

Extend understanding of fraction equivalence and ordering. Gain familiarity with factors and

multiples.

Generalize place value understanding for multi-digit whole numbers.

Generate and analyze patterns.

Represent and interpret data.

Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit. understand concepts of angle and measure

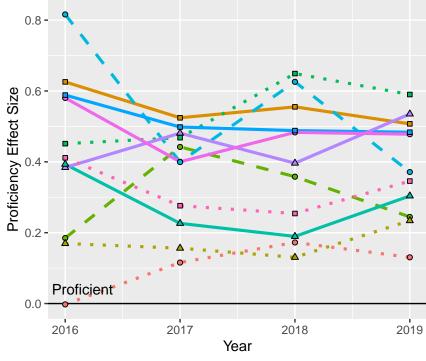
angles. Understand decimal notation for

fractions, and compare decimal fractions. Use place value understanding and

properties of operations to perform multi-digit arithmetic.
Use the four operations with whole

numbers to solve problems.

Grade 5 Target Performance



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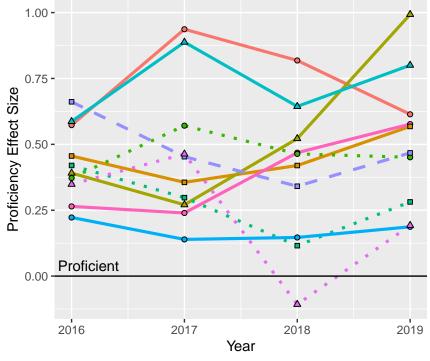
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- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two-dimensional figures into
- categories based on their properties.
 Convert like measurement units within a given measurement system.
- given measurement system.

 Graph points on the coordinate plane
- to solve real–world and mathematical problems.

 Perform operations with multi–digit
- whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance



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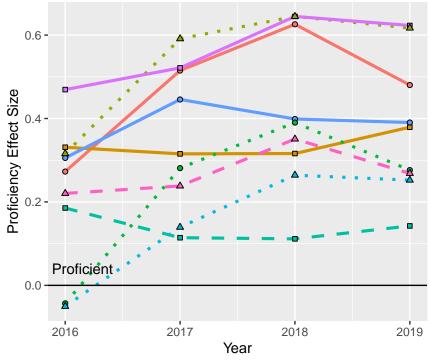
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Target

numbers.

- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- Compute fluently with multi-digit numbers and find common factors and
- multiples.
 Develop understanding of statistical variability.
- Reason about and solve one-variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real–world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance



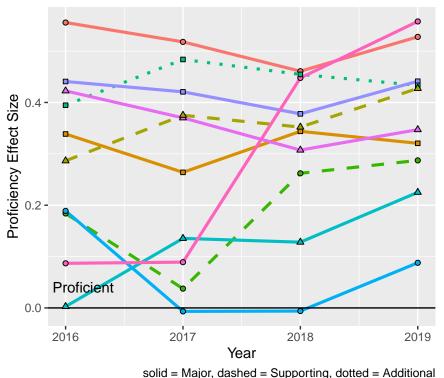
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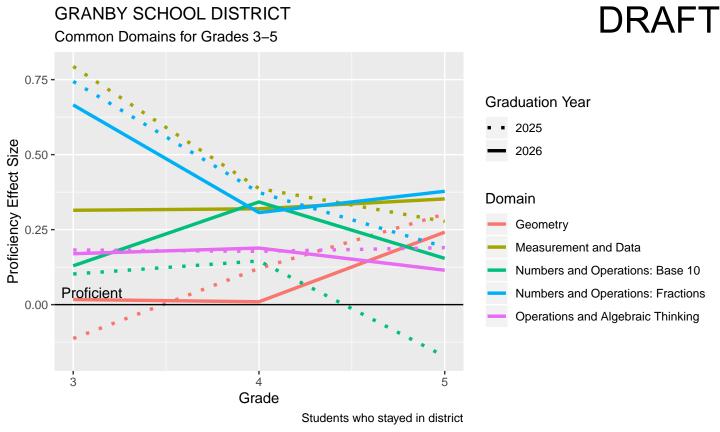
- Analyze proportional relationships and use them to solve real-world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add,
- subtract, multiply, and divide rational numbers.
 - Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical problems involving angle measure, area,
- surface area, and volume. Solve real-life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- about a population.

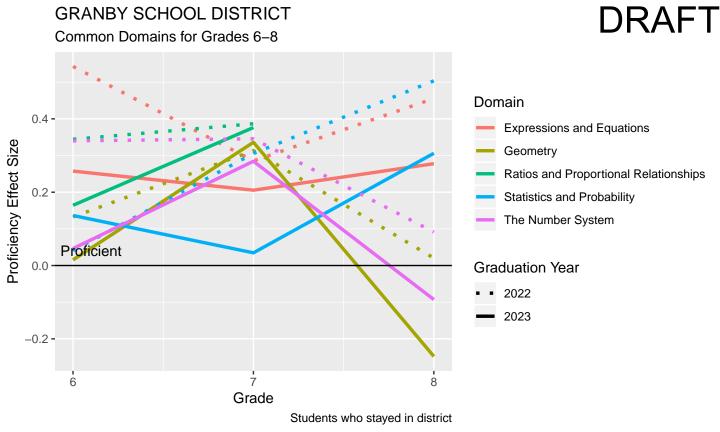
Grade 8 Target Performance





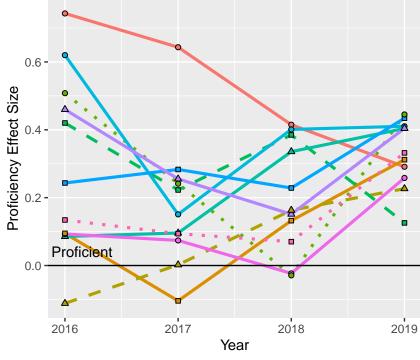
- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real-world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and intege exponents.





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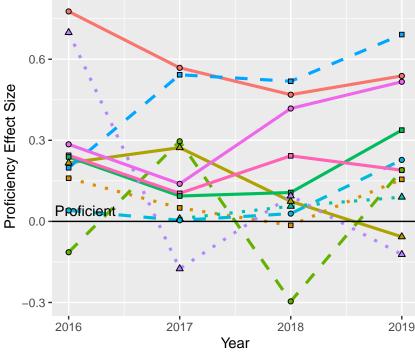


solid = Major, dashed = Supporting, dotted = Additional

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
 - solve problems involving measurement and estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four
 operations, and identify and explain
- patterns in arithmetic.
 Understand concepts of area and relate area to multiplication and to addition.
 Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi-digit arithmetic.

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Grade 4 Target Performance



Target

Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.

Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

Extend understanding of fraction equivalence and ordering.
Gain familiarity with factors and

multiples.
Generalize place value understanding for multi–digit whole numbers.

Generate and analyze patterns.

Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

understand concepts of angle and measure angles.

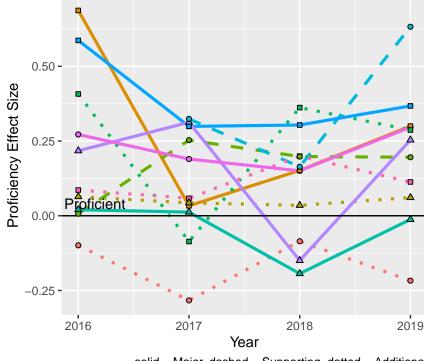
Understand decimal notation for fractions, and compare decimal fractions.
Use place value understanding and

 properties of operations to perform multi-digit arithmetic.

Use the four operations with whole numbers to solve problems.

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Grade 5 Target Performance

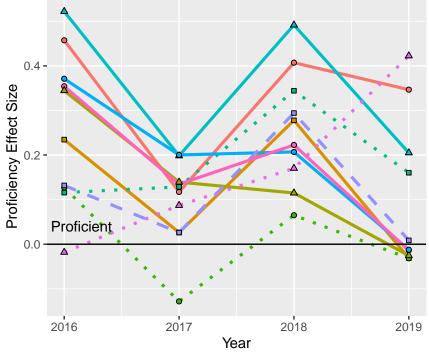


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- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two-dimensional figures into
- categories based on their properties.
 Convert like measurement units within a given measurement system.
- Graph points on the coordinate plane to solve real–world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance

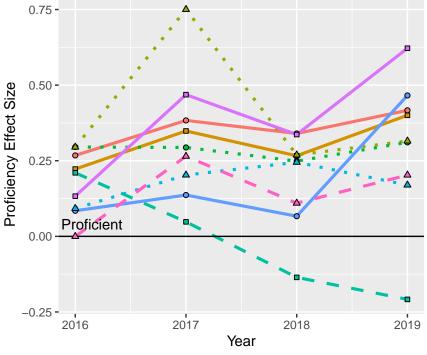


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DRAFT

- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi–digit
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one-variable equations and inequalities. Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real–world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance



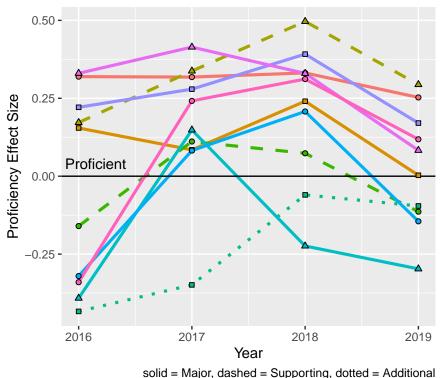
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DRAFT

- Analyze proportional relationships and use them to solve real-world and mathematical problems. Apply and extend previous understandings
- of operations with fractions to add, subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical problems involving angle measure, area, surface area, and volume.
- Solve real-life and mathematical problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate
- equivalent expressions.
 Use random sampling to draw inferences about a population.

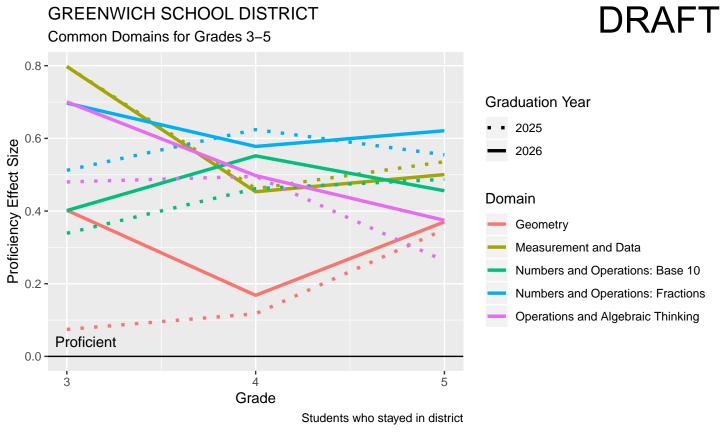
Grade 8 Target Performance



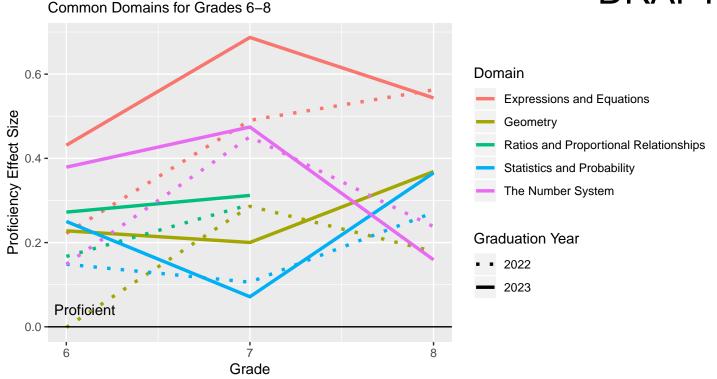


Target

- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real–world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and integer exponents.

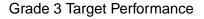


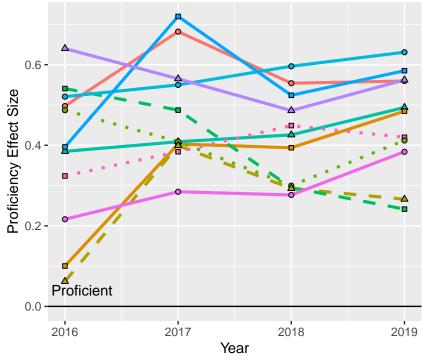
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Students who stayed in district

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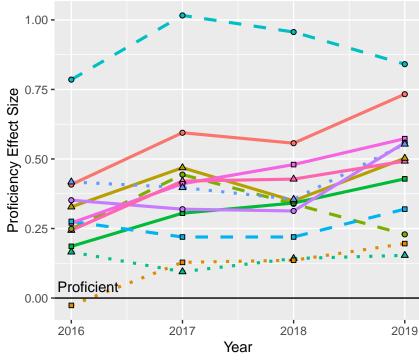




solid = Major, dashed = Supporting, dotted = Additional

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division.
 Solve problems involving measurement and
- Solve problems involving measurement and estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four
- operations, and identify and explain patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition.
 Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi–digit arithmetic.

Grade 4 Target Performance



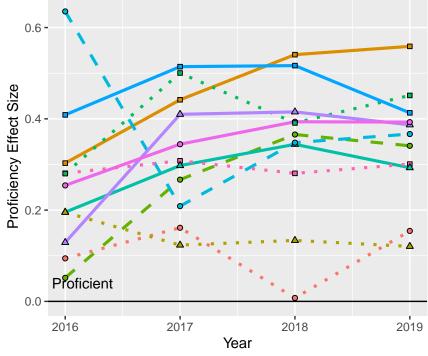
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Target

DRAFT

- Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.
- Draw and identify lines and angles, and classify shapes by properties of their lines and angles.
- Extend understanding of fraction equivalence and ordering. Gain familiarity with factors and
- multiples. Generalize place value understanding for
- multi-digit whole numbers.
- Generate and analyze patterns.
- Represent and interpret data.
- Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.
- understand concepts of angle and measure angles. Understand decimal notation for
- fractions, and compare decimal fractions.
- Use place value understanding and properties of operations to perform multi-digit arithmetic.
 Use the four operations with whole
- numbers to solve problems.

Grade 5 Target Performance

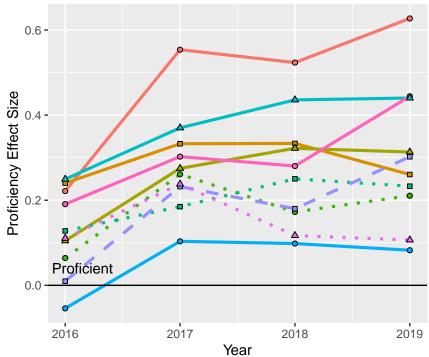


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- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two-dimensional figures into
- categories based on their properties.
 Convert like measurement units within a given measurement system.
- Graph points on the coordinate plane to solve real-world and mathematical problems.
- Perform operations with multi–digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance

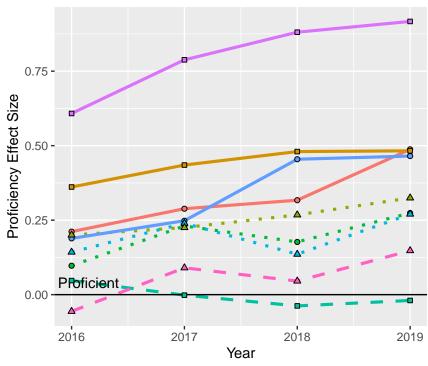


Year
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DRAFT

- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi–digit
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one-variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real–world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance



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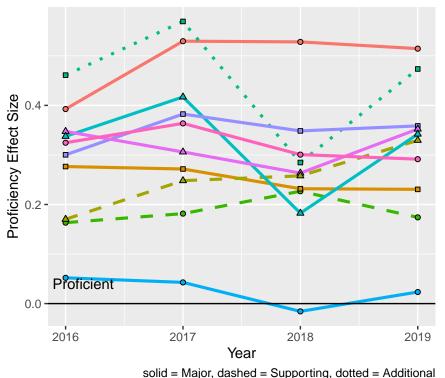
DRAFT

- Analyze proportional relationships and use them to solve real-world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational
- numbers. Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability
- models. Solve real-life and mathematical
- problems involving angle measure, area, surface area, and volume. Solve real-life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- about a population.

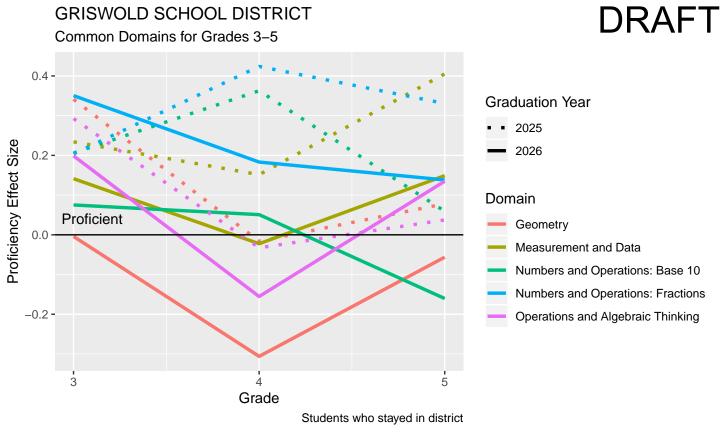
GREENWICH SCHOOL DISTRICT

Grade 8 Target Performance

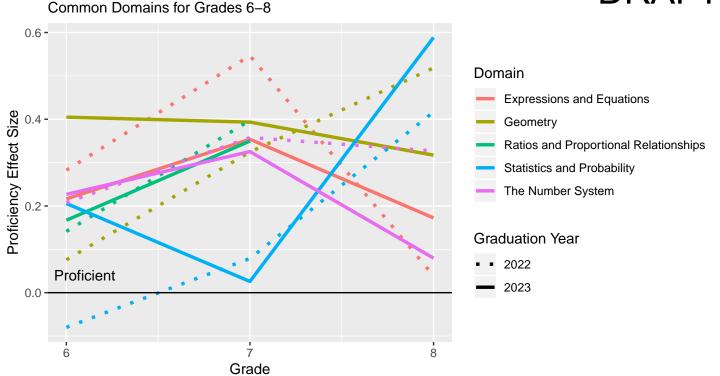




- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real—world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
 Use functions to model relationships
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and integer exponents.

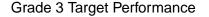


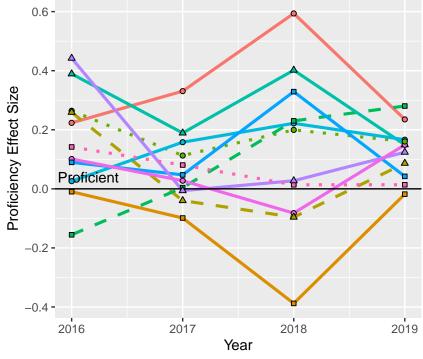




Students who stayed in district

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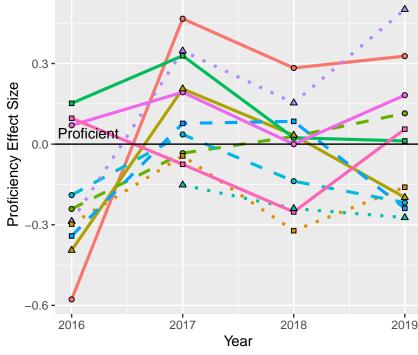




solid = Major, dashed = Supporting, dotted = Additional

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
- estimation of intervals of time, liquid
- volumes, and masses of objects. Solve problems involving the four operations, and identify and explain
- patterns in arithmetic. Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi-digit arithmetic.

Grade 4 Target Performance



solid = Major, dashed = Supporting, dotted = Additional

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Target

Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.

 Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

Extend understanding of fraction equivalence and ordering.
Gain familiarity with factors and

multiples.
Generalize place value understanding for multi–digit whole numbers.

■ Generate and analyze patterns.

Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

understand concepts of angle and measure angles.

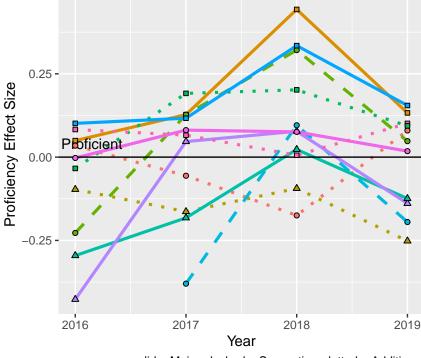
Understand decimal notation for fractions, and compare decimal fractions.

Use place value understanding and properties of operations to perform multi-digit arithmetic.

Use the four operations with whole

Use the four operations with who numbers to solve problems.

Grade 5 Target Performance



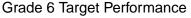
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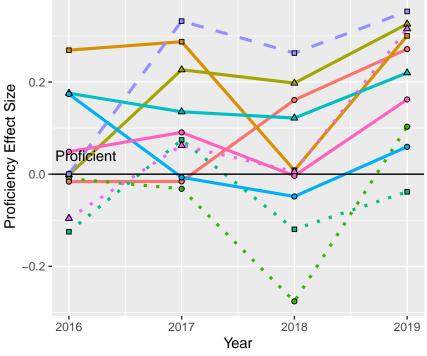
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- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two-dimensional figures into
 - categories based on their properties.
 Convert like measurement units within a given measurement system.
 - Ğraph points on the coordinate plane to solve real–world and mathematical
- problems.

 Perform operations with multi-digit
- whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

GRISWOLD SCHOOL DISTR



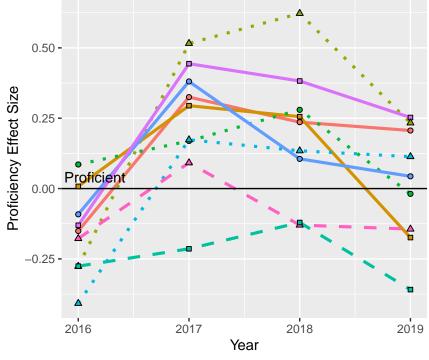


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- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi–digit
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one–variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real–world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance

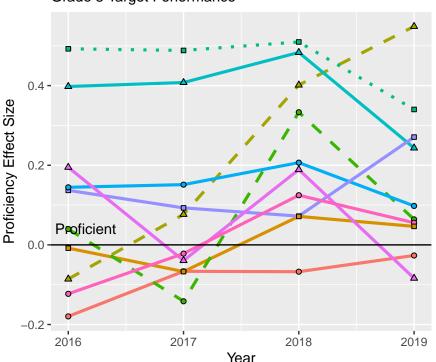


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DRAFT

- Analyze proportional relationships and use them to solve real-world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add,
- subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical problems involving angle measure, area, surface area, and volume.
- Solve real-life and mathematical problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- about a population.

Grade 8 Target Performance



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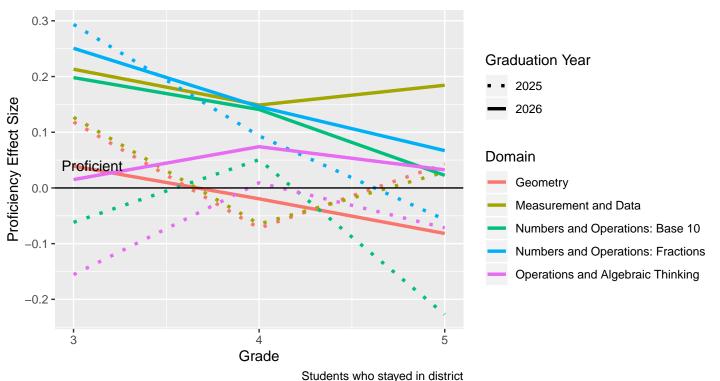
Target

- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real–world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and integer exponents.

solid = Major, dashed = Supporting, dotted = Additional

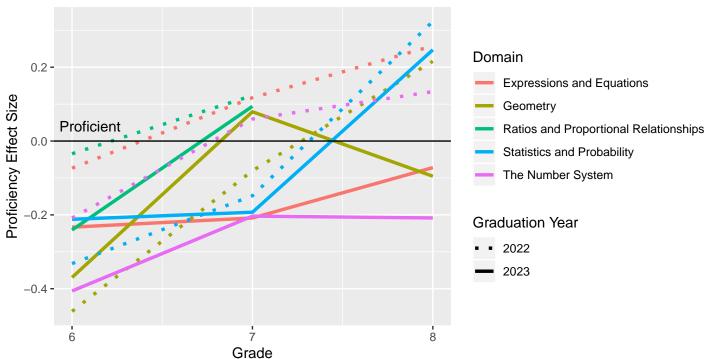
GROTON SCHOOL DISTRICT Common Domains for Grades 3–5





GROTON SCHOOL DISTRICT Common Domains for Grades 6–8

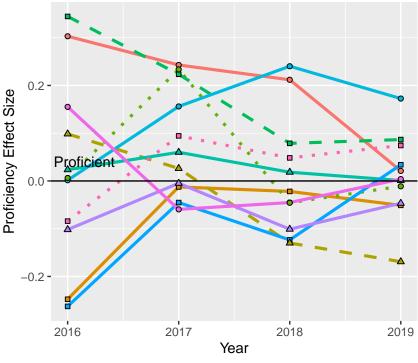




Students who stayed in district

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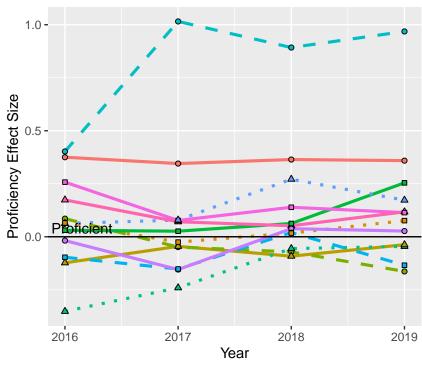
Grade 3 Target Performance



solid = Major, dashed = Supporting, dotted = Additional

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division.
- multiplication and division.
 Solve problems involving measurement and estimation of intervals of time, liquid
- volumes, and masses of objects. Solve problems involving the four
- operations, and identify and explain patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
 Use place value understanding and
- properties of arithmetic to perform multi–digit arithmetic.

Grade 4 Target Performance



solid = Major, dashed = Supporting, dotted = Additional

Target

DRAFT

Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.

Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

Extend understanding of fraction equivalence and ordering. Gain familiarity with factors and

multiples.

Generalize place value understanding for multi-digit whole numbers.

Generate and analyze patterns.

Represent and interpret data.

Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

understand concepts of angle and measure angles. Understand decimal notation for

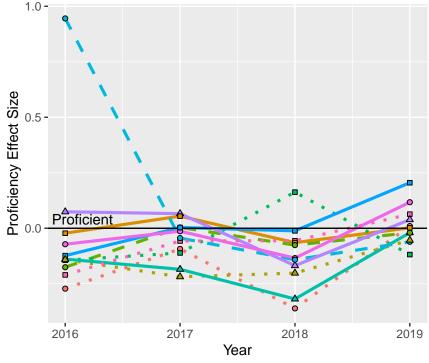
fractions, and compare decimal fractions. Use place value understanding and

properties of operations to perform multi-digit arithmetic.
Use the four operations with whole

numbers to solve problems.

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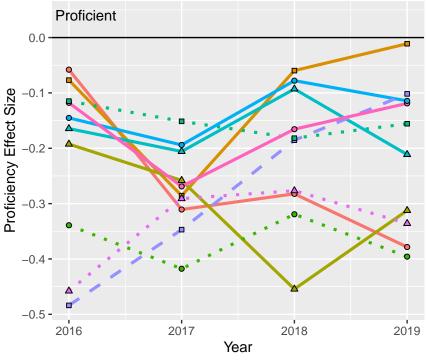




solid = Major, dashed = Supporting, dotted = Additional

- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two-dimensional figures into
- categories based on their properties.
 Convert like measurement units within a given measurement system.
- Graph points on the coordinate plane to solve real-world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance



solid = Major, dashed = Supporting, dotted = Additional

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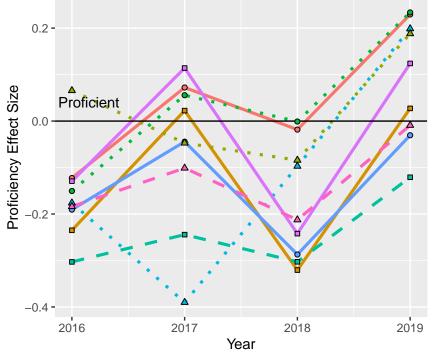
Target

numbers.

- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- Compute fluently with multi-digit
 numbers and find common factors and
- multiples.

 Develop understanding of statistical variability.
- Reason about and solve one-variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real—world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance



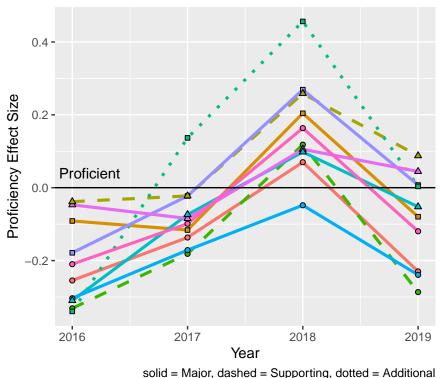
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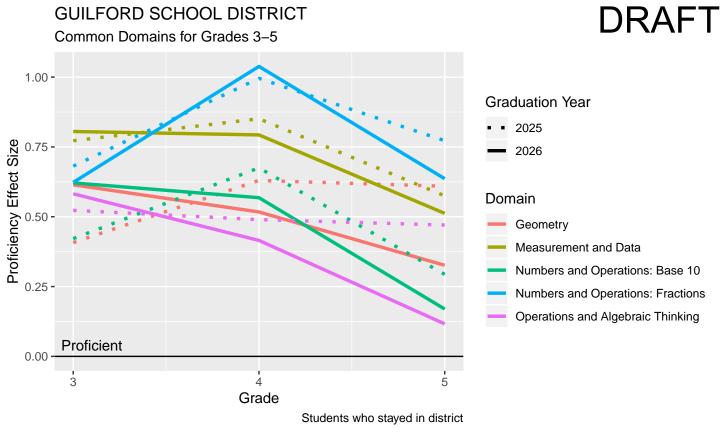
- Analyze proportional relationships and use them to solve real-world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add,
- subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations. Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical problems involving angle measure, area, surface area, and volume.
- Solve real-life and mathematical problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate
- equivalent expressions.
 Use random sampling to draw inferences about a population.

Grade 8 Target Performance

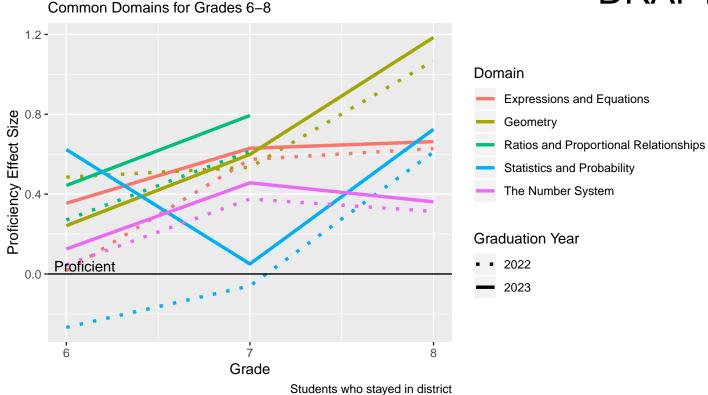




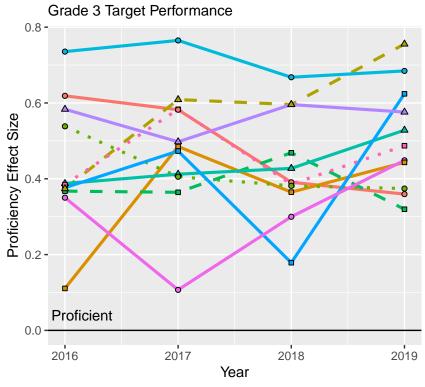
- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real–world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and intege exponents.







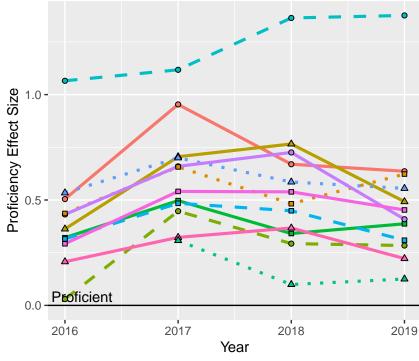
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- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division.
- multiplication and division.
 Solve problems involving measurement and estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four
- operations, and identify and explain patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition.
 Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi-digit arithmetic.

Grade 4 Target Performance



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Target

DRAFT

Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.

Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

Extend understanding of fraction equivalence and ordering. Gain familiarity with factors and

multiples.

Generalize place value understanding for multi-digit whole numbers.

Generate and analyze patterns.

Represent and interpret data.

Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

understand concepts of angle and measure angles. Understand decimal notation for

fractions, and compare decimal fractions. Use place value understanding and

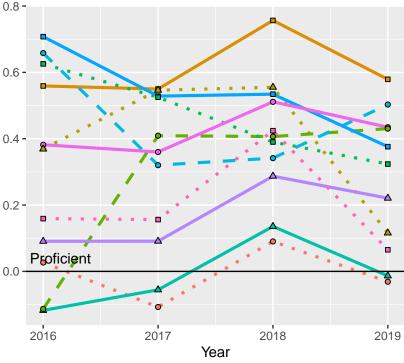
properties of operations to perform multi-digit arithmetic.
Use the four operations with whole

numbers to solve problems.

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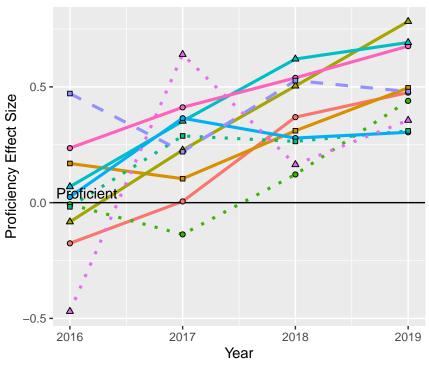
Proficiency Effect Size



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- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two–dimensional figures into
- categories based on their properties.
 Convert like measurement units within a
- given measurement system.
 Graph points on the coordinate plane
- to solve real-world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance



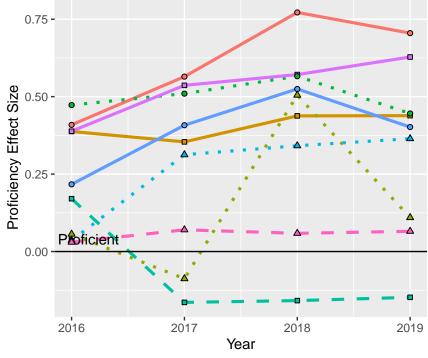
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Target

- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi-digit
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one-variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real–world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

solid = Major, dashed = Supporting, dotted = Additional

Grade 7 Target Performance



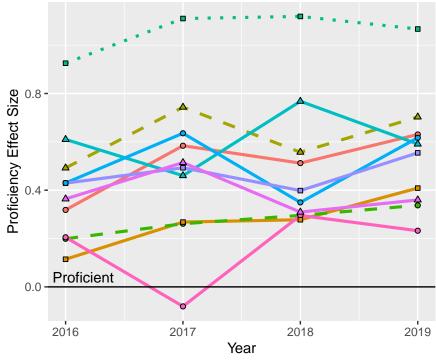
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- Analyze proportional relationships and use them to solve real-world and mathematical problems.
 - Apply and extend previous understandings of operations with fractions to add,
- subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical
- problems involving angle measure, area, surface area, and volume. Solve real-life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- about a population.

Grade 8 Target Performance

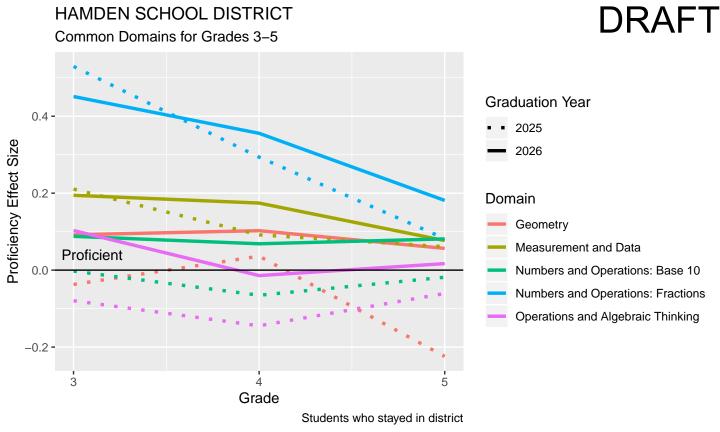


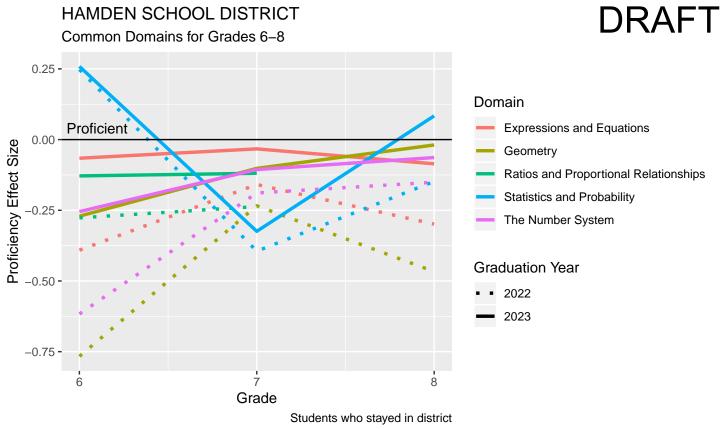


Target

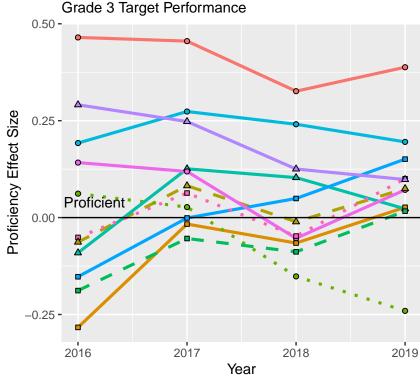
- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions: Define, evaluate, and compare
- functions. Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
 - Solve real-world and mathematical problems involving volume of cylinders,
- cones and spheres. Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities. Work with radicals and integer
- exponents.

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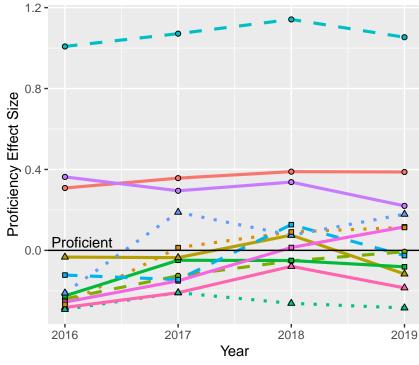


Target

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division.
- Solve problems involving measurement and estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four
- operations, and identify and explain patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi–digit arithmetic.

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Grade 4 Target Performance



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Target

DRAFT

Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.

Draw and identify lines and angles, and classify shapes by properties of their

lines and angles. Extend understanding of fraction equivalence and ordering.

Gain familiarity with factors and multiples.

Generalize place value understanding for multi-digit whole numbers.

Generate and analyze patterns.

Represent and interpret data.

Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

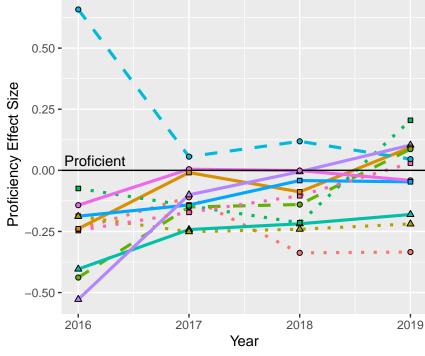
understand concepts of angle and measure angles. Understand decimal notation for

fractions, and compare decimal fractions. Use place value understanding and

properties of operations to perform multi-digit arithmetic.
Use the four operations with whole

numbers to solve problems.

Grade 5 Target Performance

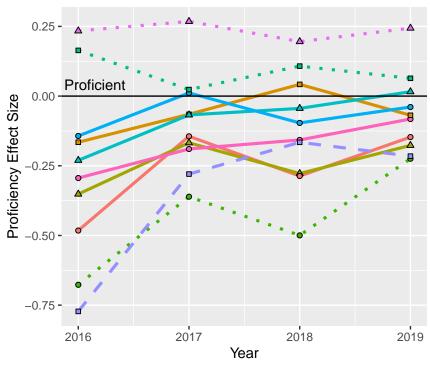


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- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two-dimensional figures into
- categories based on their properties.
 Convert like measurement units within a given measurement system.
- Graph points on the coordinate plane
 to solve real–world and mathematical
- to solve real–world and mathematical problems.
 Perform operations with multi–digit
- whole numbers and with decimals to hundredths.
- Represent and interpret data.
 - Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance



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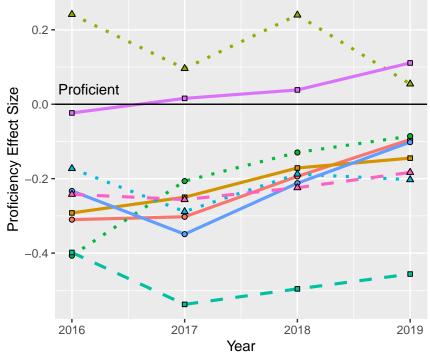
Target

- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi–digit
 numbers and find common factors and
- numbers and find common factors and multiples.

 Develop understanding of statistical
- Develop understanding of statistical variability.
- Reason about and solve one–variable equations and inequalities. Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real—world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

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Grade 7 Target Performance

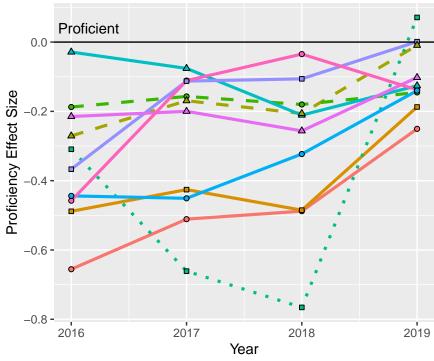


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- Analyze proportional relationships
 and use them to solve real-world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add,
- of operations with fractions to add, subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
 - Investigate chance processes and develop, use, and evaluate probability models.
 - Solve real–life and mathematical problems involving angle measure, area,
- surface area, and volume.
 Solve real-life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- Use random sampling to draw inference about a population.

Grade 8 Target Performance



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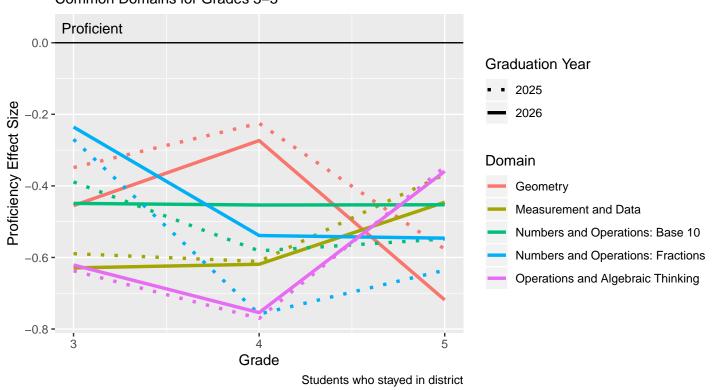
Target

- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real–world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and integer exponents.

solid = Major, dashed = Supporting, dotted = Additional

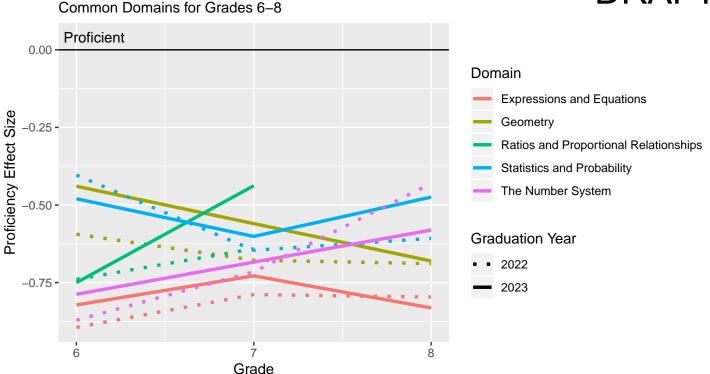
HARTFORD SCHOOL DISTRICT Common Domains for Grades 3–5





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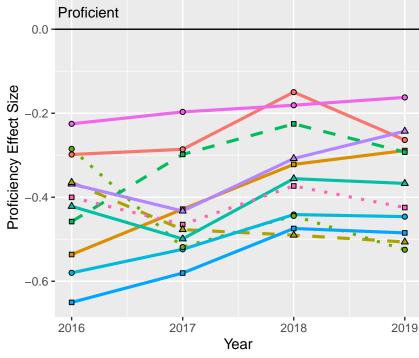


Students who stayed in district

HARTFORD SCHOOL DISTRICT

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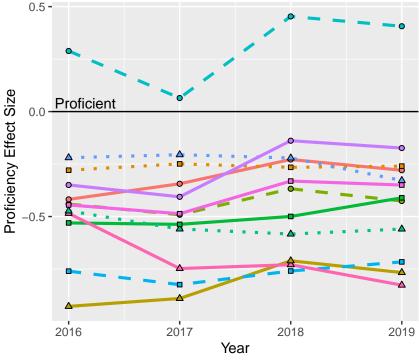
Grade 3 Target Performance



solid = Major, dashed = Supporting, dotted = Additional

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division.
 - multiplication and division.
 Solve problems involving measurement and estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four
- operations, and identify and explain patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
 Use place value understanding and
- properties of arithmetic to perform multi–digit arithmetic.

Grade 4 Target Performance



solid = Major, dashed = Supporting, dotted = Additional

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Target

Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.

Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

Extend understanding of fraction equivalence and ordering. Gain familiarity with factors and

multiples. Generalize place value understanding for multi-digit whole numbers.

Generate and analyze patterns.

Represent and interpret data.

Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

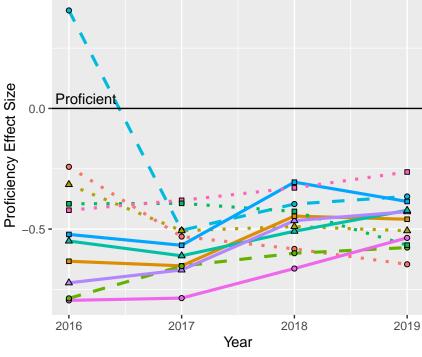
understand concepts of angle and measure angles. Understand decimal notation for

fractions, and compare decimal fractions.

Use place value understanding and properties of operations to perform multi-digit arithmetic.
Use the four operations with whole

numbers to solve problems.

Grade 5 Target Performance



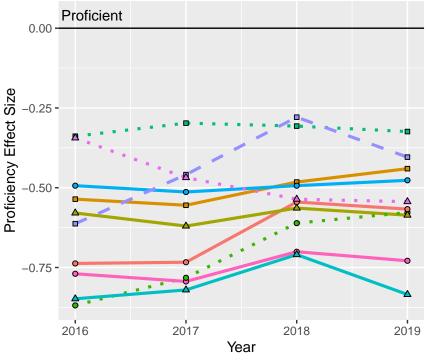
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- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two–dimensional figures into
- categories based on their properties.
 Convert like measurement units within a
- given measurement system.

 Graph points on the coordinate plane
- to solve real–world and mathematical problems.
 Perform operations with multi–digit
- whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance



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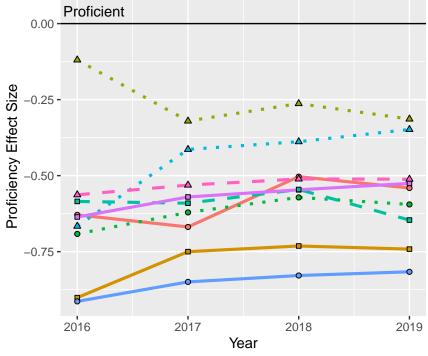
Target

numbers.

- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- Compute fluently with multi-digit numbers and find common factors and
- multiples.

 Develop understanding of statistical variability.
- Reason about and solve one-variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real—world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance

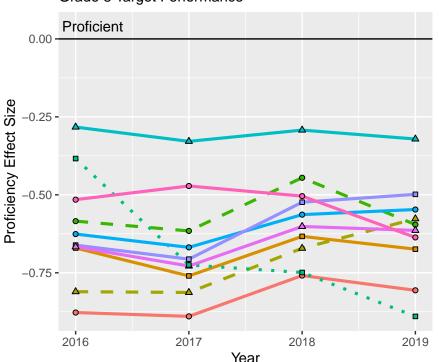


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- Analyze proportional relationships and use them to solve real-world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical problems involving angle measure, area, surface area, and volume.
- Solve real-life and mathematical problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- about a population.

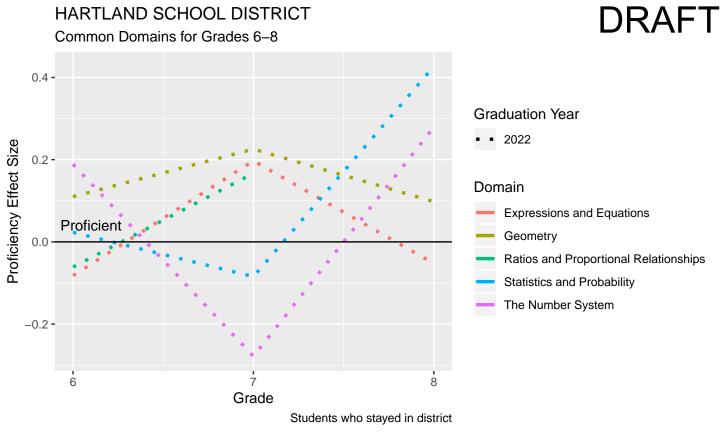
Grade 8 Target Performance



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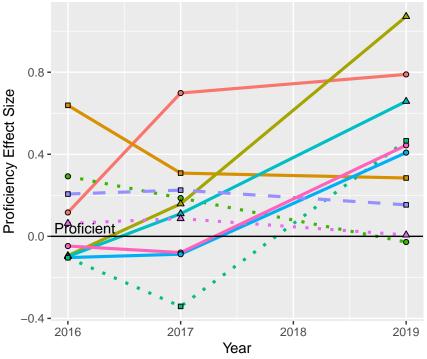
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- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by
- rational numbers.
 Solve real–world and mathematical
- problems involving volume of cylinders, cones and spheres.
 Understand and apply the Pythagorean
- theorem.
 Understand congruence and similarity
- using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and integer exponents.



HARTLAND SCHOOL DISTRICT

Grade 6 Target Performance



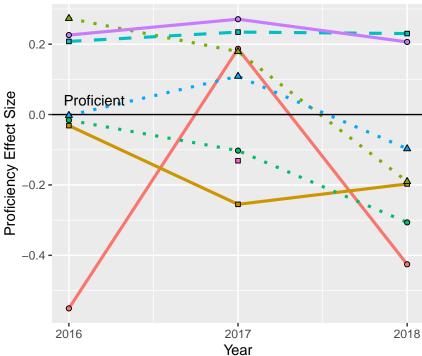
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- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi-digit
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one–variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real—world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

HARTLAND SCHOOL DISTRICT

Grade 7 Target Performance



solid = Major, dashed = Supporting, dotted = Additional

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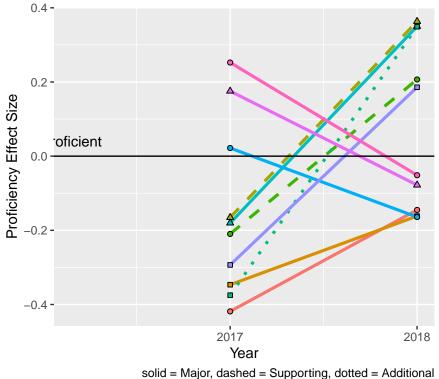
- Analyze proportional relationships and use them to solve real–world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.
- Draw, construct and describe geometrical figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability
- models.

 Solve real–life and mathematical
- problems involving angle measure, area, surface area, and volume.
- Solve real-life and mathematical problems using numerical and algebraic
- expressions and equations.
 Use properties of operations to generate
- equivalent expressions.
 Use random sampling to draw inferences
- Use random sampling to draw inference about a population.

HARTLAND SCHOOL DISTRICT

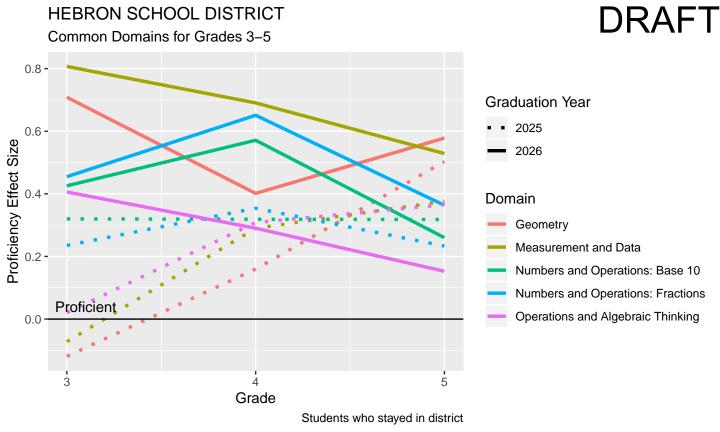
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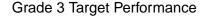


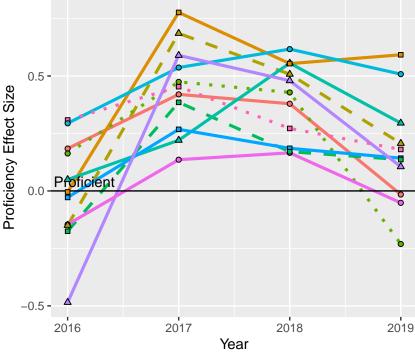
- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by
- not rational, and approximate them by rational numbers.

 Solve real–world and mathematical
 - problems involving volume of cylinders, cones and spheres.Understand and apply the Pythagorean
- theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and integer exponents.



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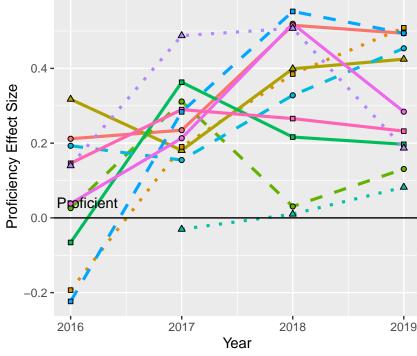


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- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division.
- Solve problems involving measurement and estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four
 operations, and identify and explain
- patterns in arithmetic.
 Understand concepts of area and relate area to multiplication and to addition.
 Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi-digit arithmetic.

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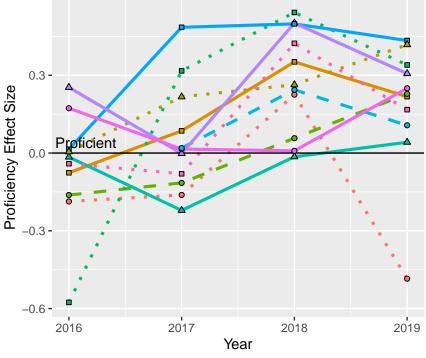


Target

- Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.
- Draw and identify lines and angles, and classify shapes by properties of their lines and angles.
- Extend understanding of fraction equivalence and ordering.
 Gain familiarity with factors and
- multiples.
 Generalize place value understanding for multi–digit whole numbers.
- Generate and analyze patterns.
 - Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.
- understand concepts of angle and measure angles.
- Understand decimal notation for fractions, and compare decimal fractions.
 Use place value understanding and
- properties of operations to perform multi-digit arithmetic.
- Use the four operations with whole numbers to solve problems.

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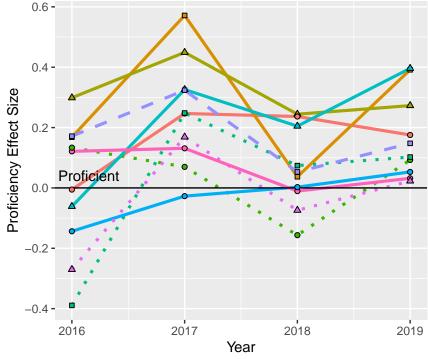
Grade 5 Target Performance



solid = Major, dashed = Supporting, dotted = Additional

- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two–dimensional figures into
- categories based on their properties.
 Convert like measurement units within a
- given measurement system.
 Graph points on the coordinate plane
- to solve real–world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance

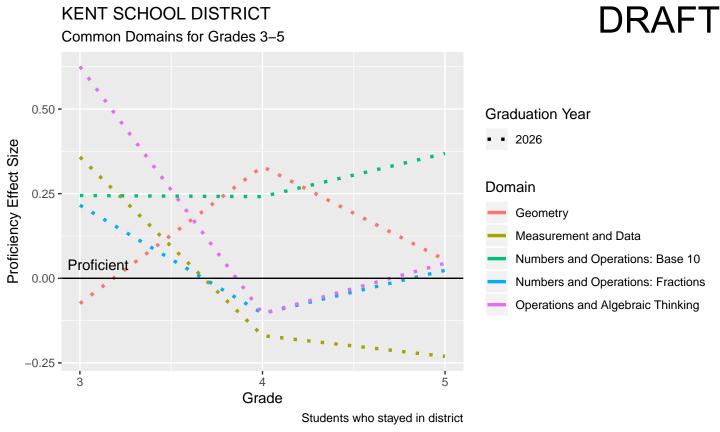


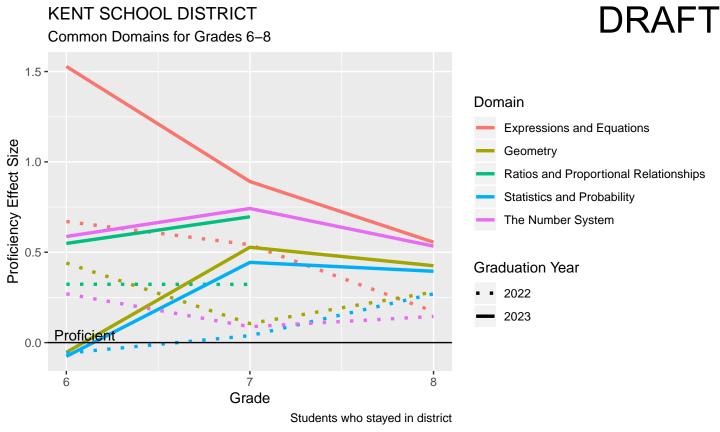
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Target

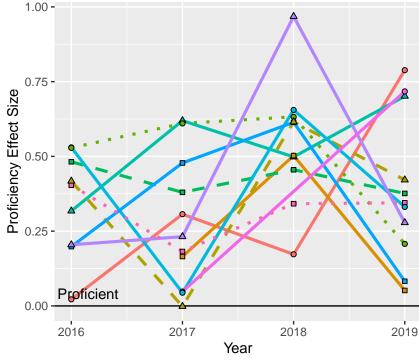
- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi–digit
 numbers and find common factors and
- multiples.

 Develop understanding of statistical
- Develop understanding of statistical variability.
- Reason about and solve one-variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real–world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.





Grade 3 Target Performance

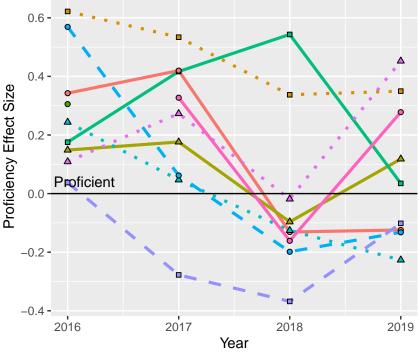


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DRAFT

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division.
 Solve problems involving measurement and
- Solve problems involving measurement and estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four
- operations, and identify and explain patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
 Use place value understanding and
- properties of arithmetic to perform multi–digit arithmetic.

Grade 4 Target Performance



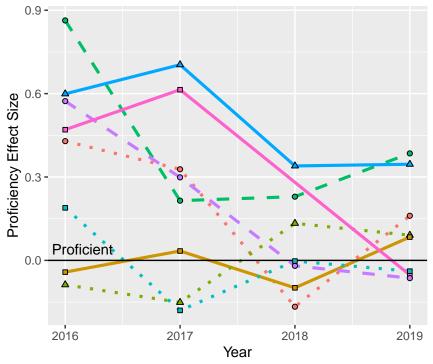
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DRAFT

- Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.
- Draw and identify lines and angles, and classify shapes by properties of their lines and angles.
- Extend understanding of fraction equivalence and ordering.
 Gain familiarity with factors and
- multiples.
 Generalize place value understanding for
- multi-digit whole numbers.
 Solve problems involving measurement and conversion of measurements from a larger
- unit to a smaller unit.
 understand concepts of angle and measure angles.
- Understand decimal notation for fractions, and compare decimal fractions.
- Use place value understanding and properties of operations to perform multi–digit arithmetic.
 Use the four operations with whole
 - Use the four operations with whole numbers to solve problems.

Grade 5 Target Performance

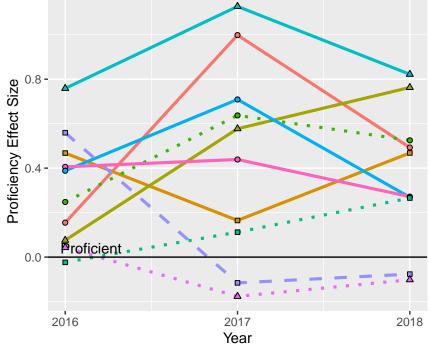




solid = Major, dashed = Supporting, dotted = Additional

- Apply and extend previous understandings of multiplication and division to multiply and divide fractions.
- Classify two-dimensional figures into categories based on their properties. Graph points on the coordinate plane
- to solve real-world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance



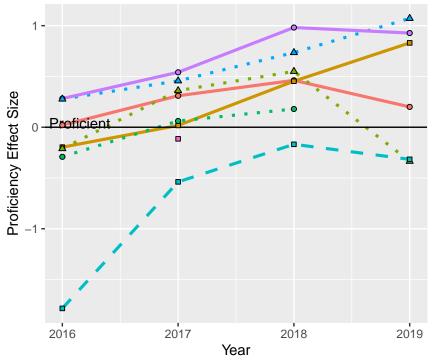
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- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi–digit
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one–variable equations and inequalities. Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real–world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance



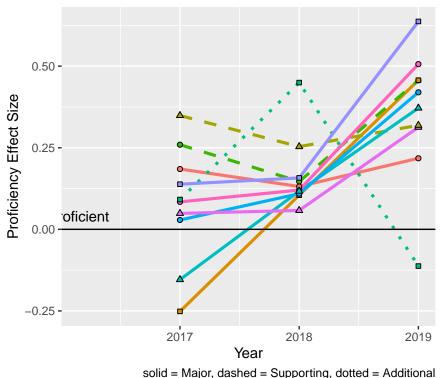


Target

- Analyze proportional relationships and use them to solve real–world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.
- Draw, construct and describe geometrical figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real–life and mathematical problems involving angle measure, area, surface area, and volume.
- Solve real-life and mathematical problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- Use random sampling to draw inference about a population.

Grade 8 Target Performance





Target

- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real–world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and integer exponents.

DRAFT KILLINGLY SCHOOL DISTRICT Common Domains for Grades 3-5 **Graduation Year** Proficient 2025 2026 Domain Geometry Measurement and Data Numbers and Operations: Base 10 -0.6 **-**Numbers and Operations: Fractions Operations and Algebraic Thinking 3

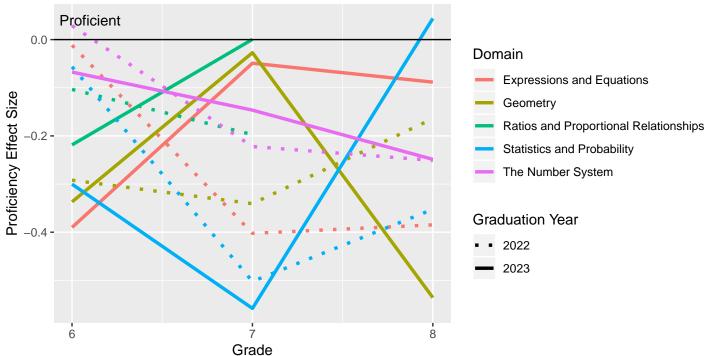
Proficiency Effect Size

Students who stayed in district

Grade

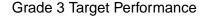
KILLINGLY SCHOOL DISTRICT Common Domains for Grades 6–8 Proficient

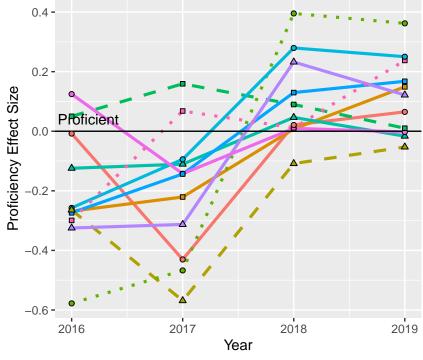




Students who stayed in district

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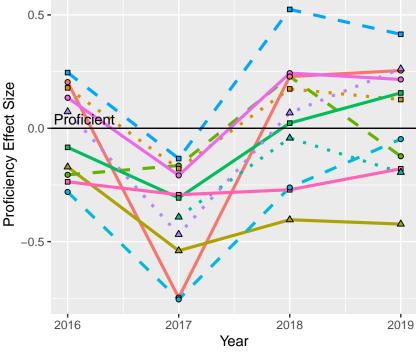




solid = Major, dashed = Supporting, dotted = Additional

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
 - Solve problems involving measurement and estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four
- operations, and identify and explain patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
 Use place value understanding and
- properties of arithmetic to perform multi–digit arithmetic.

Grade 4 Target Performance

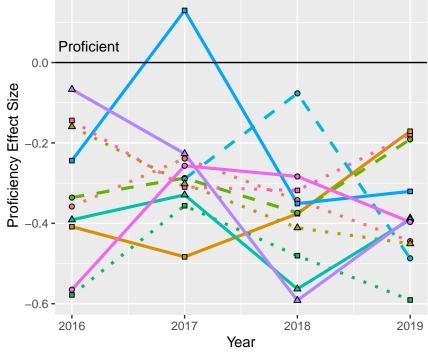


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DRAFT

- Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.
- Draw and identify lines and angles, and classify shapes by properties of their lines and angles.
- Extend understanding of fraction equivalence and ordering.
 Gain familiarity with factors and
- multiples.
 Generalize place value understanding for multi–digit whole numbers.
- Generate and analyze patterns.
- Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.
- understand concepts of angle and measure angles.
- Understand decimal notation for fractions, and compare decimal fractions.
- Use place value understanding and properties of operations to perform multi-digit arithmetic.
- Use the four operations with whole numbers to solve problems.

Grade 5 Target Performance



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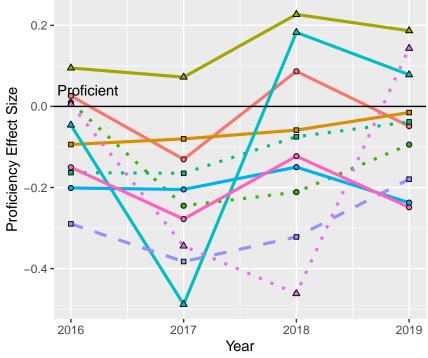
DRAFT

- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.

 Classify two-dimensional figures into
- categories based on their properties.
 Convert like measurement units within a
- given measurement system.

 Graph points on the coordinate plane
- to solve real–world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
 - Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance

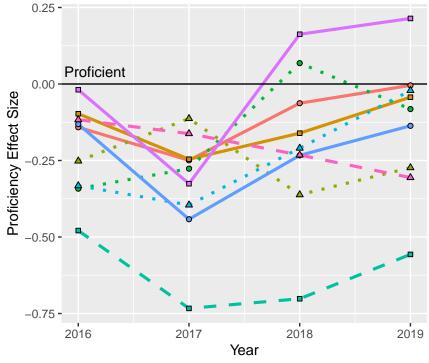


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- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational numbers.
- Compute fluently with multi-digit numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one-variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real–world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance



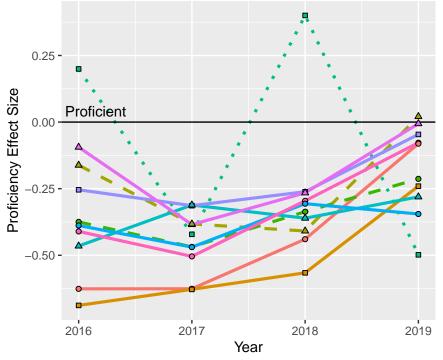
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- Analyze proportional relationships and use them to solve real-world and mathematical problems.
 - Apply and extend previous understandings
- of operations with fractions to add, subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
 - Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical problems involving angle measure, area, surface area, and volume.
- Solve real-life and mathematical problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate
- equivalent expressions.
 Use random sampling to draw inferences about a population.

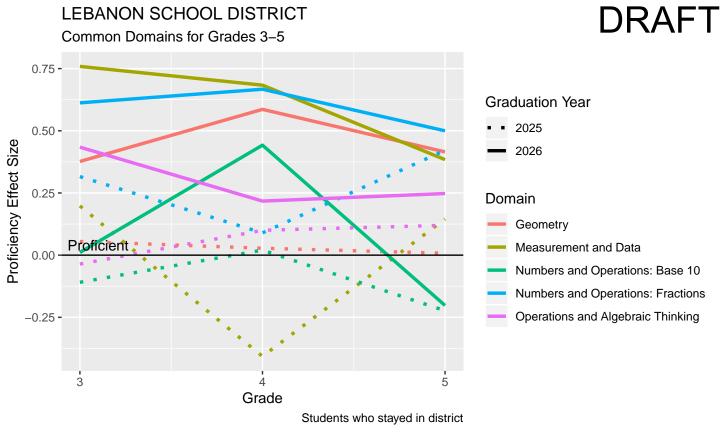
Grade 8 Target Performance

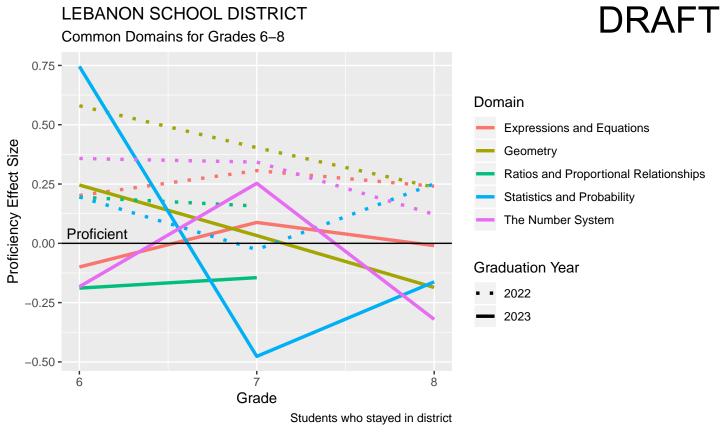




Target

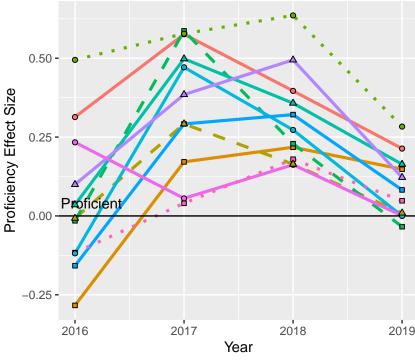
- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions: Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real-world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities. Work with radicals and integer
- exponents.





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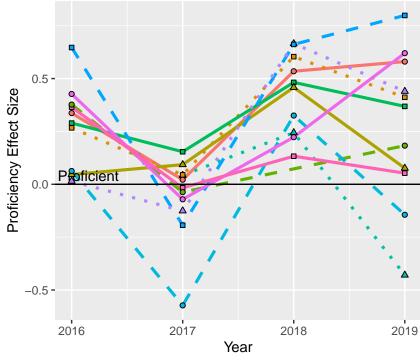


Target

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
- estimation of intervals of time, liquid
- volumes, and masses of objects. Solve problems involving the four
- operations, and identify and explain patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi-digit arithmetic.

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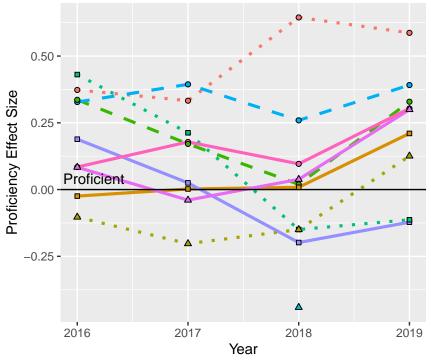


solid = Major, dashed = Supporting, dotted = Additional

- Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.
- Draw and identify lines and angles, and classify shapes by properties of their lines and angles.
- Extend understanding of fraction equivalence and ordering.
 Gain familiarity with factors and
- multiples.
 Generalize place value understanding for multi-digit whole numbers.
- Generate and analyze patterns.
 - Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.
 - understand concepts of angle and measure angles.
- Understand decimal notation for fractions, and compare decimal fractions.
- Use place value understanding and properties of operations to perform multi-digit arithmetic.
- Use the four operations with whole numbers to solve problems.

Grade 5 Target Performance

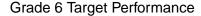


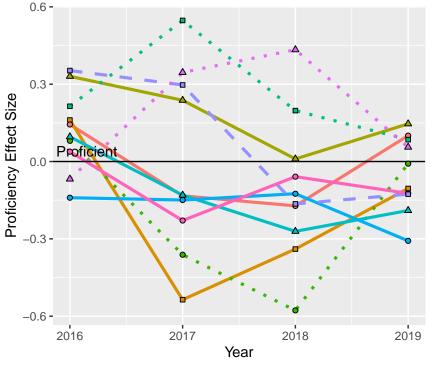


Target

- Apply and extend previous understandings of multiplication and division to multiply and divide fractions.
- Classify two-dimensional figures into categories based on their properties.
- Convert like measurement units within a given measurement system.
- Graph points on the coordinate plane to solve real–world and mathematical problems.
- Perform operations with multi-digit
 whole numbers and with decimals to
- Whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

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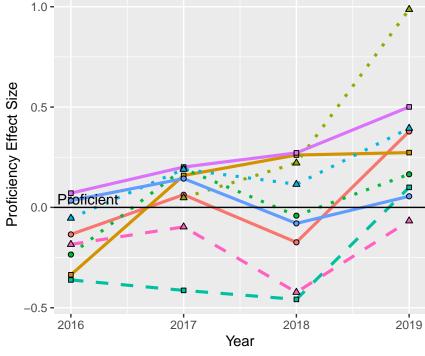
- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi–digit
 numbers and find common factors and
- multiples.

 Develop understanding of statistical
- variability.

 Reason about and solve one-variable
- equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real–world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

LEBANON SCHOOL DISTRICT

Grade 7 Target Performance



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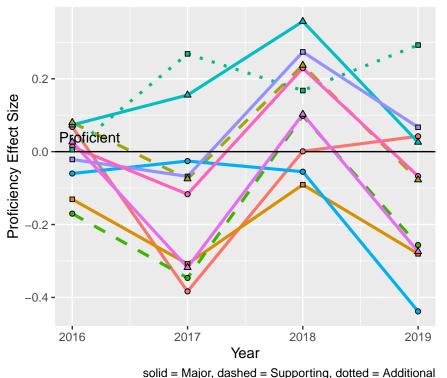
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- Analyze proportional relationships and use them to solve real-world and mathematical problems. Apply and extend previous understandings
- of operations with fractions to add, subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations. Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical problems involving angle measure, area, surface area, and volume.
- Solve real-life and mathematical problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate
- equivalent expressions.
 Use random sampling to draw inferences about a population.

LEBANON SCHOOL DISTRICT

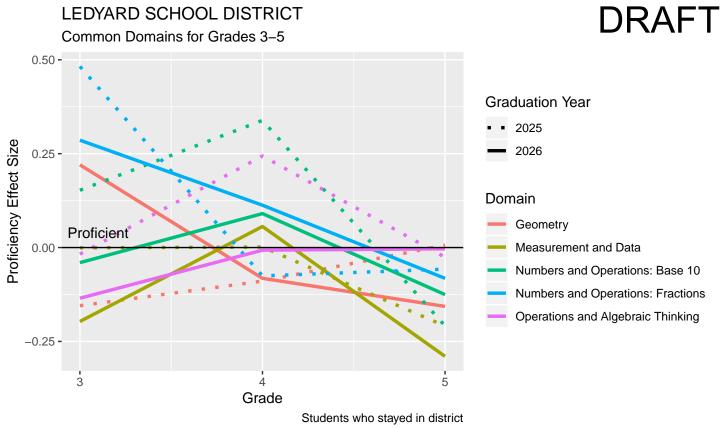
Grade 8 Target Performance





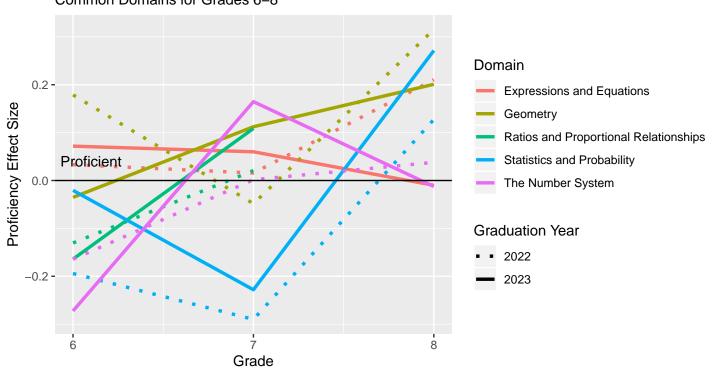
Target

- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by
- rational numbers.
 Solve real–world and mathematical
 problems involving volume of cylinders,
- cones and spheres.
 Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
- Work with radicals and integer exponents.



LEDYARD SCHOOL DISTRICT Common Domains for Grades 6–8

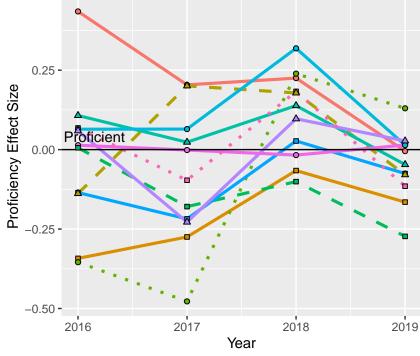




Students who stayed in district

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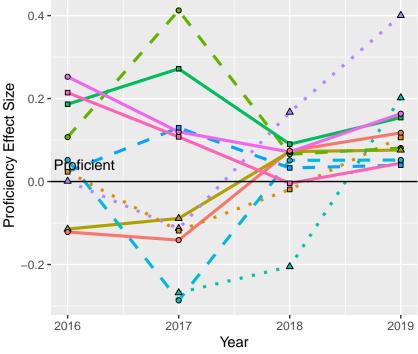


Target

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division.
 Solve problems involving measurement and
 - Solve problems involving measurement and estimation of intervals of time, liquid
- volumes, and masses of objects. Solve problems involving the four
- operations, and identify and explain patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
 Use place value understanding and
- properties of arithmetic to perform multi–digit arithmetic.

solid = Major, dashed = Supporting, dotted = Additional

Grade 4 Target Performance



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Target

Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.

 Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

Extend understanding of fraction equivalence and ordering.
Gain familiarity with factors and

multiples.
Generalize place value understanding for multi–digit whole numbers.

Generate and analyze patterns.

Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

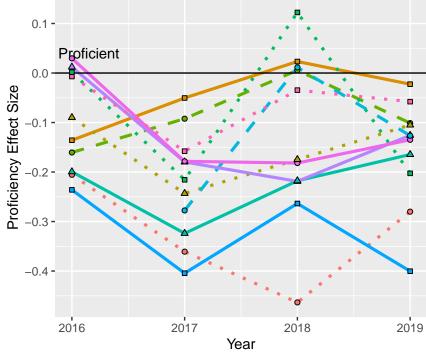
understand concepts of angle and measure angles.

Understand decimal notation for fractions, and compare decimal fractions.

 Use place value understanding and properties of operations to perform multi-digit arithmetic.

Use the four operations with whole numbers to solve problems.

Grade 5 Target Performance



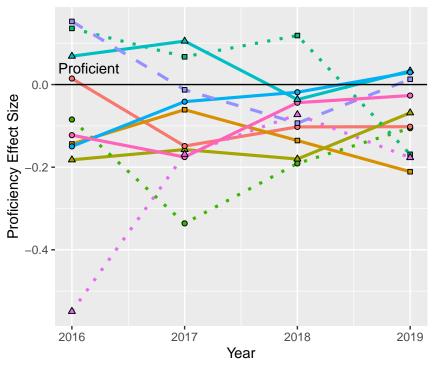
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- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two-dimensional figures into
- categories based on their properties.
 Convert like measurement units within a
- given measurement system.

 Graph points on the coordinate plane
- to solve real–world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance



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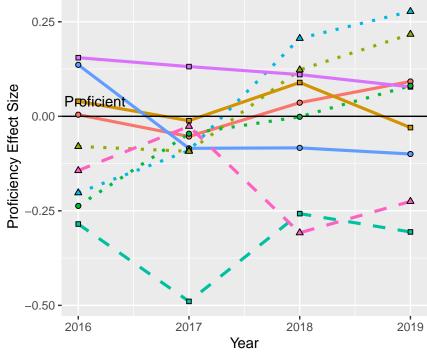
Target

- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi–digit
 numbers and find common factors and
- multiples.

 Develop understanding of statistical variability.
- Reason about and solve one-variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real—world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

solid = Major, dashed = Supporting, dotted = Additional

Grade 7 Target Performance

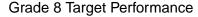


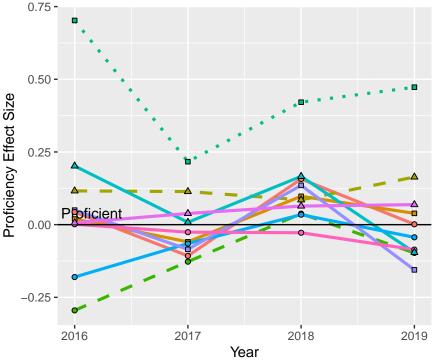
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- Analyze proportional relationships and use them to solve real-world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add,
- subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical problems involving angle measure, area, surface area, and volume.
- Solve real-life and mathematical problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- about a population.

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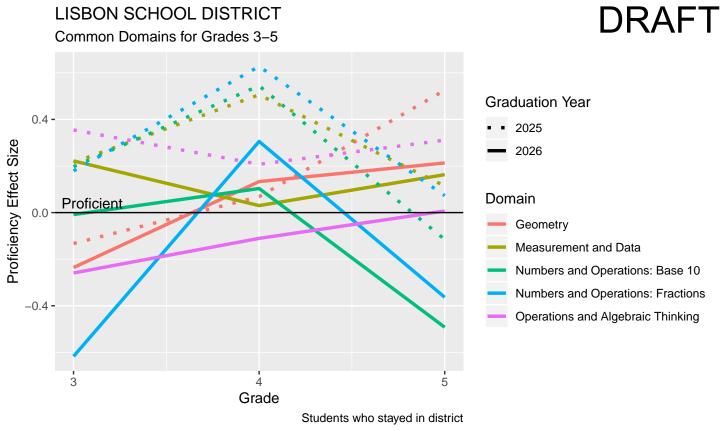


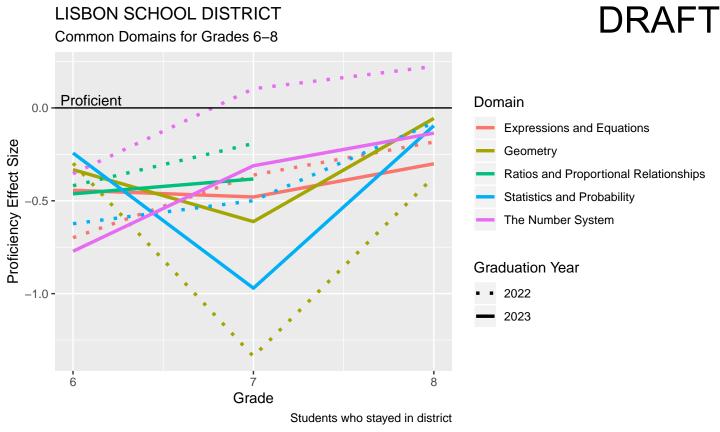


Target

- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real—world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
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- Work with radicals and intege exponents.

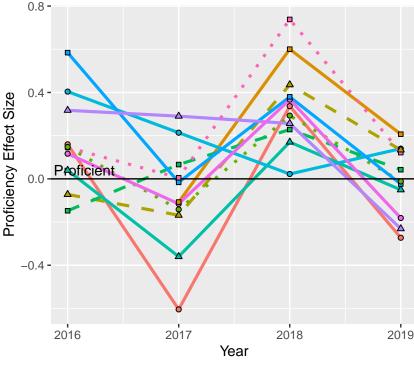
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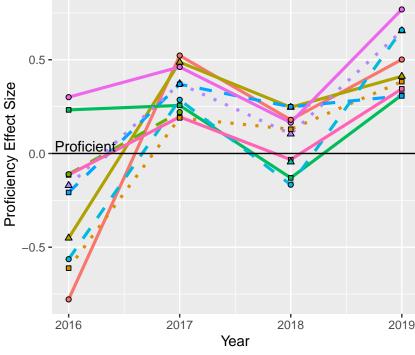




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- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division.
- Solve problems involving measurement and estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four
- operations, and identify and explain patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi–digit arithmetic.

Grade 4 Target Performance



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Target

Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.

 Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

Extend understanding of fraction equivalence and ordering.
Gain familiarity with factors and

multiples.
Generalize place value understanding for multi–digit whole numbers.

Generate and analyze patterns.

Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

understand concepts of angle and measure angles.

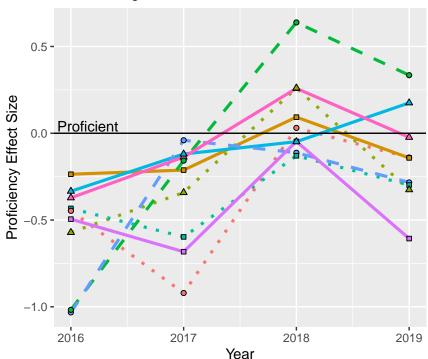
Understand decimal notation for fractions, and compare decimal fractions.
Use place value understanding and

o properties of operations to perform multi-digit arithmetic.

Use the four operations with whole

Use the four operations with whol numbers to solve problems.

Grade 5 Target Performance



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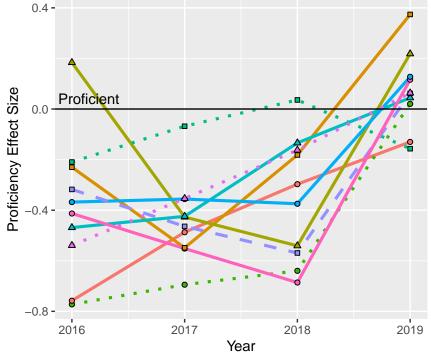
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- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.

 Classify two-dimensional figures into
- categories based on their properties.
 Convert like measurement units within a
- given measurement system.

 Graph points on the coordinate plane
- to solve real-world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance



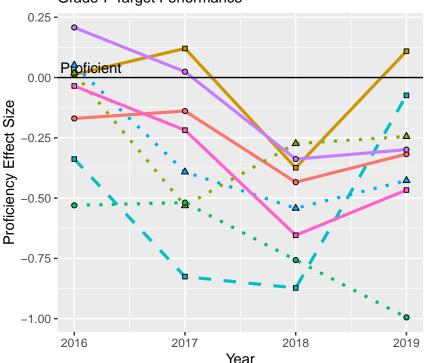
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- Apply and extend previous understandings of arithmetic to algebraic expressions.

 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi–digit
 numbers and find common factors and
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one-variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real-world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance



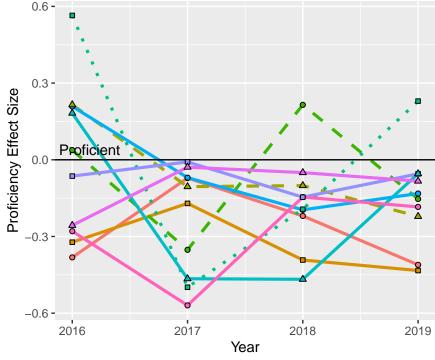
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- Analyze proportional relationships and use them to solve real–world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add,
- subtract, multiply, and divide rational numbers.

 Draw, construct and describe geometrical
- figures and describe the relationships between them.
 Investigate chance processes and
- develop, use, and evaluate probability models.
- Solve real-life and mathematical problems involving angle measure, area, surface area, and volume.
- Solve real-life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
- Use random sampling to draw inferences about a population.

Grade 8 Target Performance

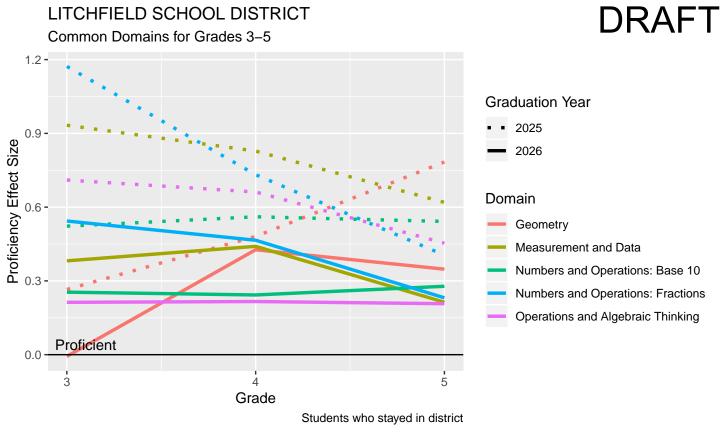


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Target

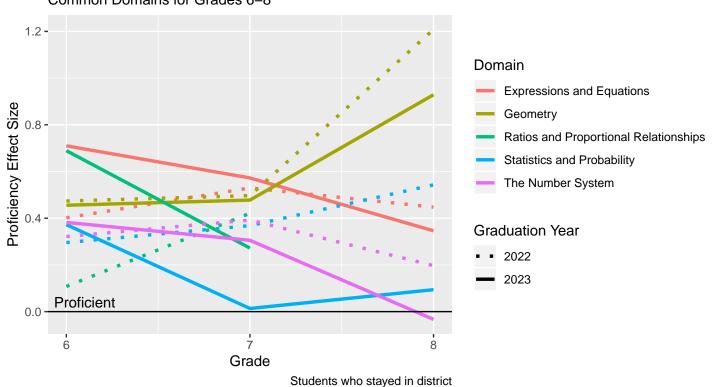
- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real–world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
- Work with radicals and integer exponents.

solid = Major, dashed = Supporting, dotted = Additional

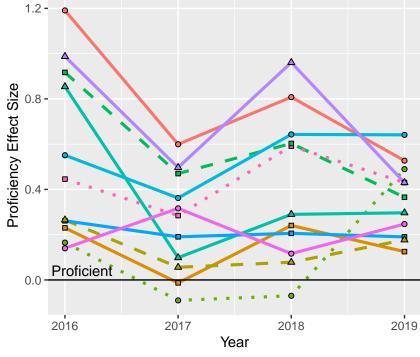


LITCHFIELD SCHOOL DISTRICT Common Domains for Grades 6–8

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Grade 3 Target Performance

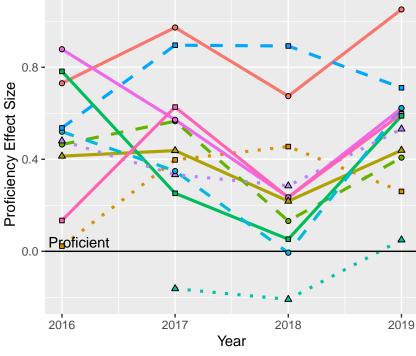


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DRAFT

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division.
 Solve problems involving measurement and
- Solve problems involving measurement and estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four
- operations, and identify and explain patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition.
 Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi-digit arithmetic.

Grade 4 Target Performance



solid = Major, dashed = Supporting, dotted = Additional

DRAFT

Target

Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.

 Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

Extend understanding of fraction equivalence and ordering.
Gain familiarity with factors and

multiples.
Generalize place value understanding for multi-digit whole numbers.

Generate and analyze patterns.

Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

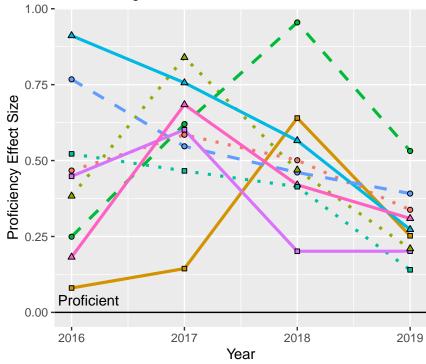
understand concepts of angle and measure angles.

Understand decimal notation for fractions, and compare decimal fractions.
Use place value understanding and

properties of operations to perform multi-digit arithmetic.

Use the four operations with whole numbers to solve problems.

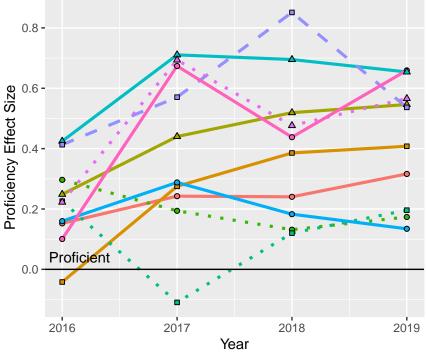




solid = Major, dashed = Supporting, dotted = Additional

- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions. Classify two-dimensional figures into
- categories based on their properties. Convert like measurement units within a
- given measurement system. Graph points on the coordinate plane
- to solve real-world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance

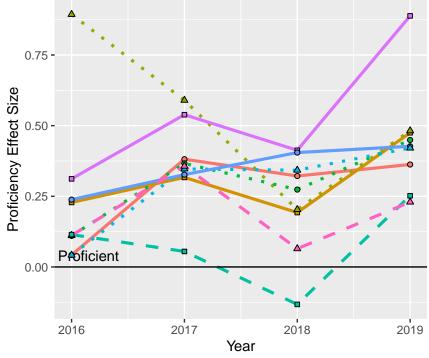


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- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi-digit
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one-variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real–world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance



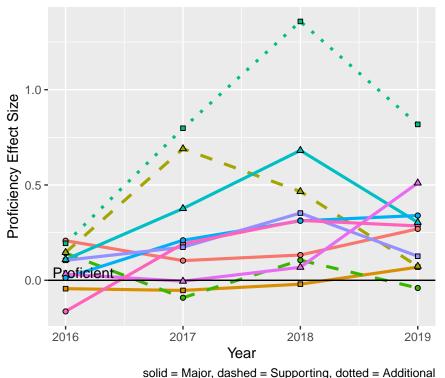
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DRAFT

- Analyze proportional relationships and use them to solve real-world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add,
- subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical problems involving angle measure, area,
- surface area, and volume. Solve real-life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- about a population.

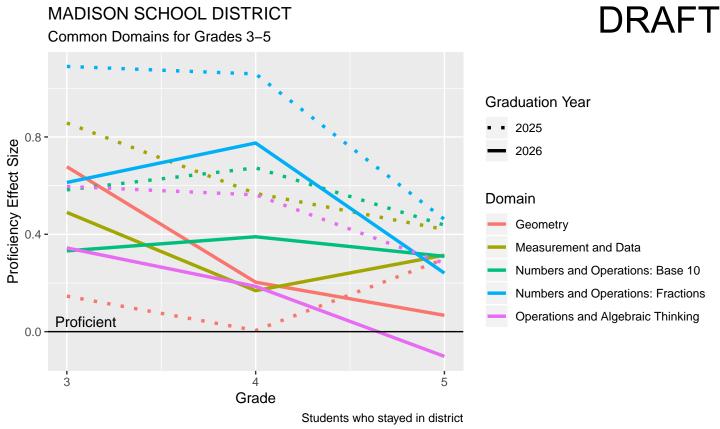
Grade 8 Target Performance

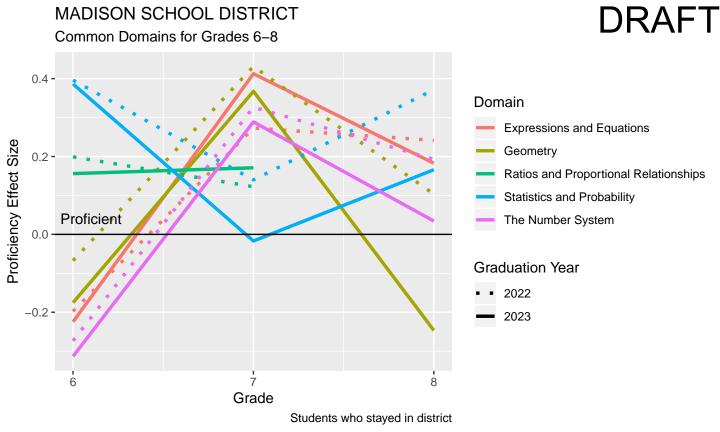




- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real—world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.

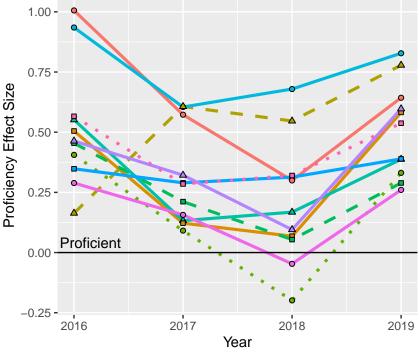
 Use functions to model relationships
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and intege exponents.





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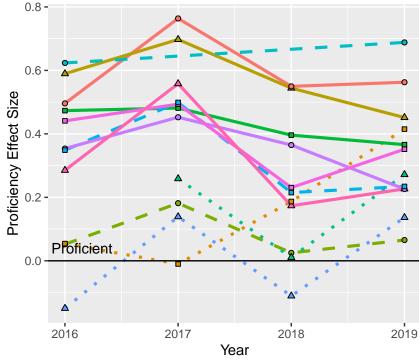




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- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
- estimation of intervals of time, liquid
- volumes, and masses of objects. Solve problems involving the four operations, and identify and explain
- patterns in arithmetic. Understand concepts of area and relate
- area to multiplication and to addition. Understand properties of multiplication and the relationship between
- multiplication and division. Use place value understanding and
- properties of arithmetic to perform multi-digit arithmetic.

Grade 4 Target Performance



solid = Major, dashed = Supporting, dotted = Additional

Target

DRAFT

Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.

Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

Extend understanding of fraction equivalence and ordering. Gain familiarity with factors and

multiples.

Generalize place value understanding for multi-digit whole numbers.

Generate and analyze patterns.

Represent and interpret data.

Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

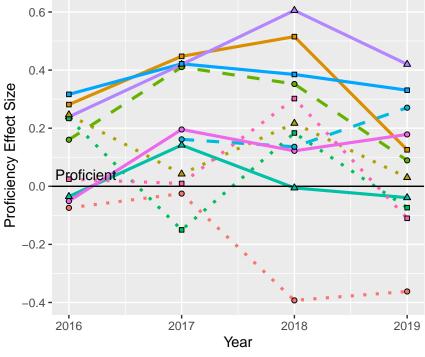
understand concepts of angle and measure angles. Understand decimal notation for

fractions, and compare decimal fractions.

Use place value understanding and properties of operations to perform multi-digit arithmetic.
Use the four operations with whole

numbers to solve problems.

Grade 5 Target Performance

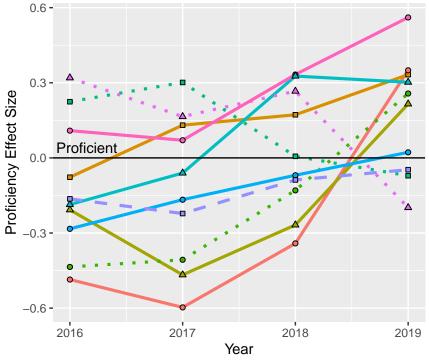


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- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two–dimensional figures into
 - categories based on their properties.
 Convert like measurement units within a
- given measurement system.
 Graph points on the coordinate plane
- to solve real–world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance

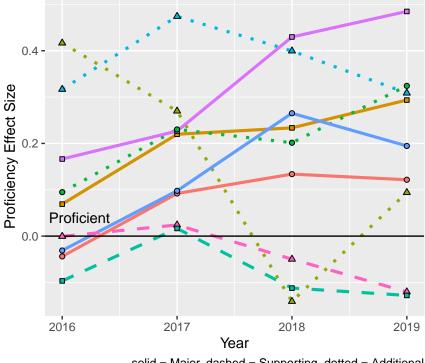


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DRAFT

- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi-digit
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one–variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real–world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance



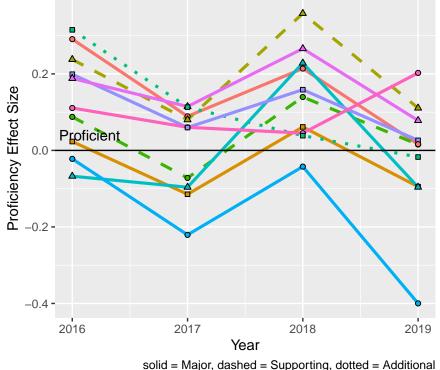
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DRAFT

- Analyze proportional relationships and use them to solve real-world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add,
- subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical problems involving angle measure, area,
- surface area, and volume. Solve real-life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- about a population.

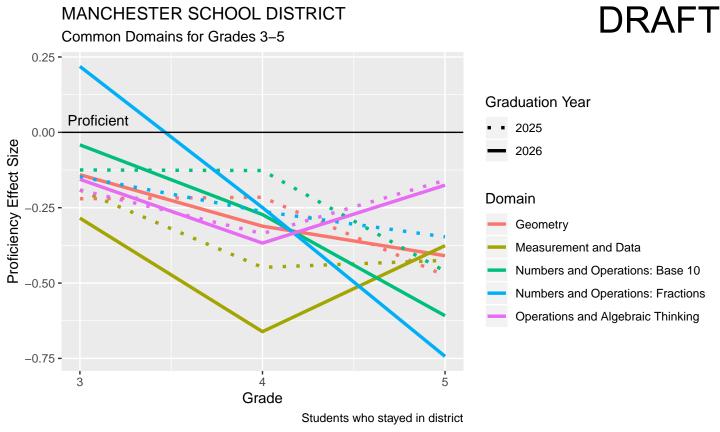
Grade 8 Target Performance

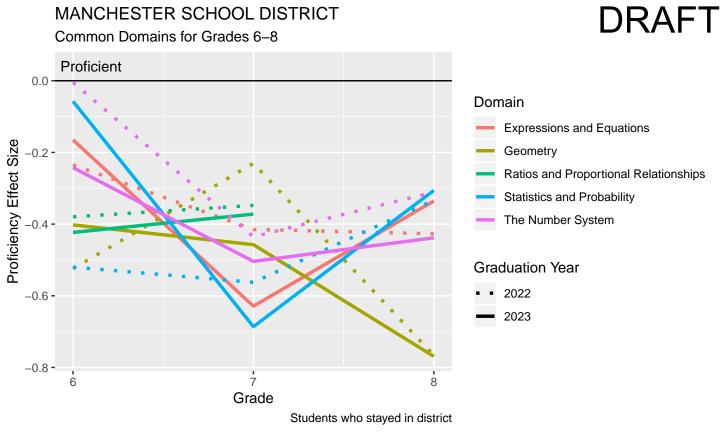




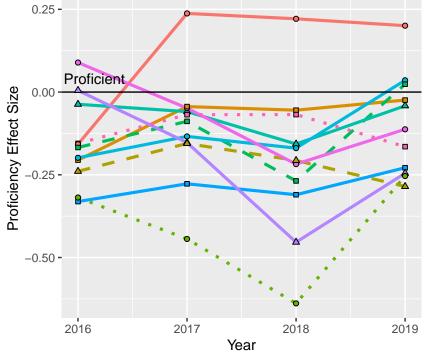
Target

- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions: Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real-world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
- Work with radicals and integer exponents.





Grade 3 Target Performance

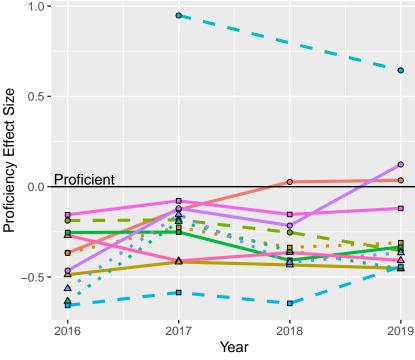


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DRAFT

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
- estimation of intervals of time, liquid
- volumes, and masses of objects. Solve problems involving the four
- operations, and identify and explain patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division. Use place value understanding and
- properties of arithmetic to perform multi-digit arithmetic.

Grade 4 Target Performance



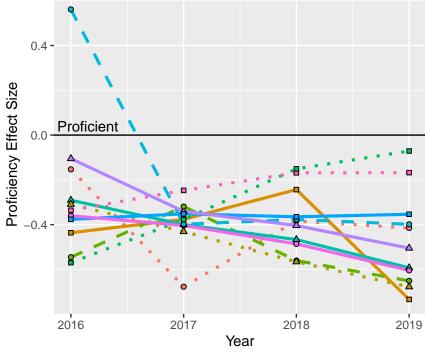
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Target

DRAFT

- Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.
- Draw and identify lines and angles, and classify shapes by properties of their lines and angles.
- Extend understanding of fraction equivalence and ordering. Gain familiarity with factors and multiples.
- Generalize place value understanding for multi-digit whole numbers.
- Generate and analyze patterns.
- Represent and interpret data.
- Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.
- understand concepts of angle and measure angles. Understand decimal notation for
- fractions, and compare decimal fractions.
- Use place value understanding and properties of operations to perform multi-digit arithmetic.
 Use the four operations with whole
- numbers to solve problems.

Grade 5 Target Performance

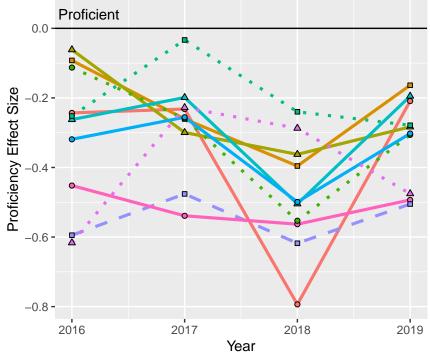


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- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two-dimensional figures into
- categories based on their properties.
 Convert like measurement units within a given measurement system.
- Graph points on the coordinate plane
- to solve real–world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance



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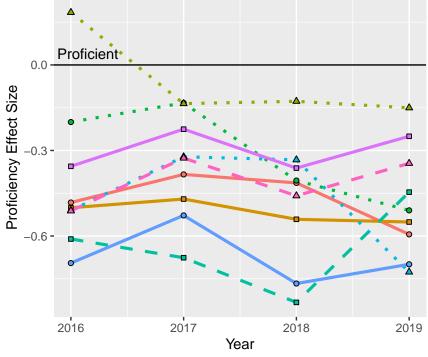
Target

numbers.

- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- Compute fluently with multi-digit numbers and find common factors and
- multiples.

 Develop understanding of statistical variability.
- Reason about and solve one–variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real—world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance



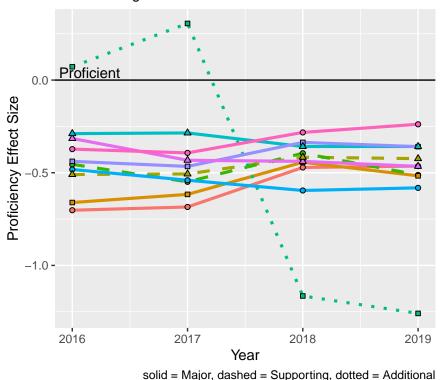
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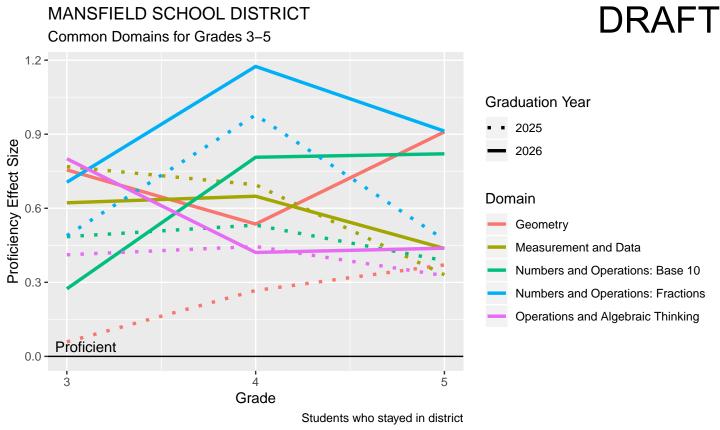
- Analyze proportional relationships
 and use them to solve real-world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add,
- of operations with fractions to add, subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical problems involving angle measure, area,
- surface area, and volume.
 Solve real–life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- Use random sampling to draw inference about a population.

Grade 8 Target Performance

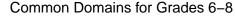


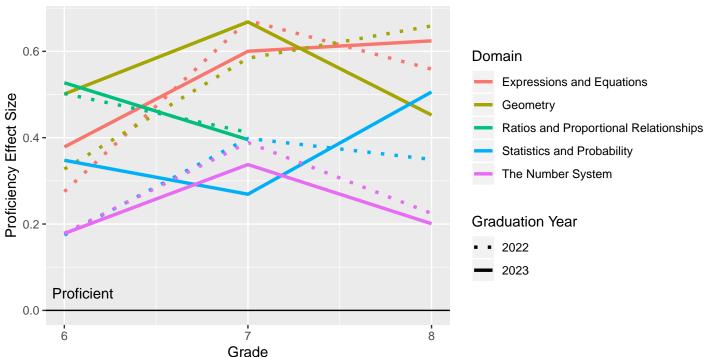


- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real—world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies,
- or geometry software.
 Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and integer exponents.



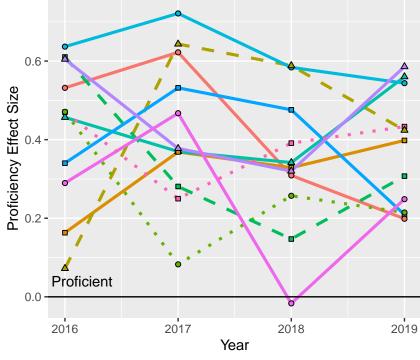
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Students who stayed in district

Grade 3 Target Performance

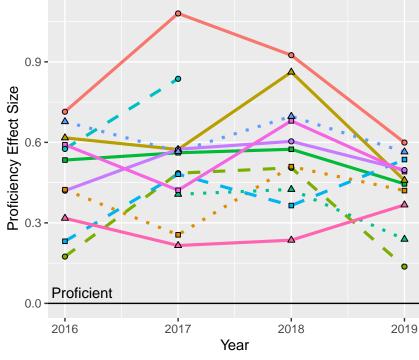


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- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
- estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four
 operations, and identify and explain
- patterns in arithmetic.
 Understand concepts of area and relate area to multiplication and to addition.
 Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi–digit arithmetic.

Grade 4 Target Performance



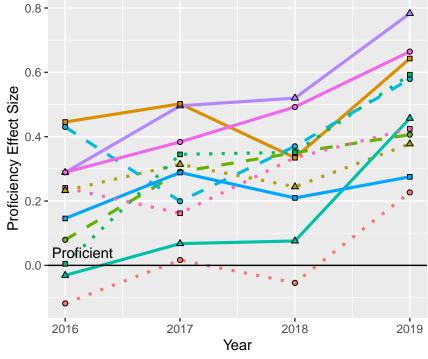
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Target

DRAFT

- Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.
- Draw and identify lines and angles, and classify shapes by properties of their
- lines and angles. Extend understanding of fraction
- equivalence and ordering. Gain familiarity with factors and multiples.
- Generalize place value understanding for multi-digit whole numbers.
- Generate and analyze patterns.
- Represent and interpret data.
- Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.
- understand concepts of angle and measure angles. Understand decimal notation for
- fractions, and compare decimal fractions.
- Use place value understanding and properties of operations to perform multi-digit arithmetic.
 Use the four operations with whole
- numbers to solve problems.

Grade 5 Target Performance

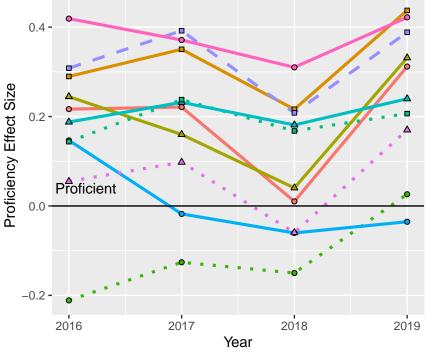


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DRAFT

- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two-dimensional figures into
- categories based on their properties.
 Convert like measurement units within a given measurement system.
- Graph points on the coordinate plane to solve real-world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance



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Target

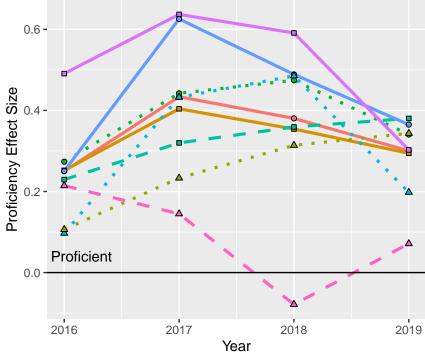
numbers.

- Apply and extend previous understandings of arithmetic to algebraic expressions.

 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- Compute fluently with multi-digit numbers and find common factors and
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- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

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Grade 7 Target Performance

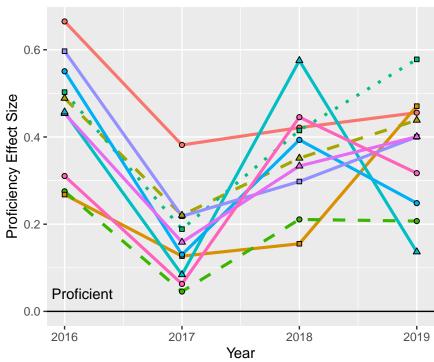


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DRAFT

- Analyze proportional relationships and use them to solve real-world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add,
- subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
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- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical problems involving angle measure, area,
- surface area, and volume. Solve real-life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- about a population.

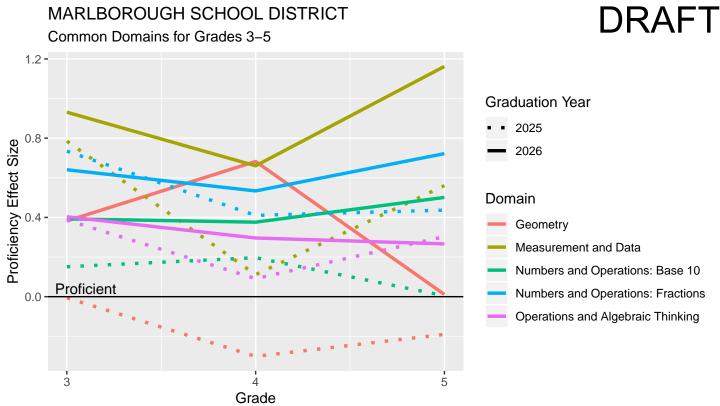
Grade 8 Target Performance



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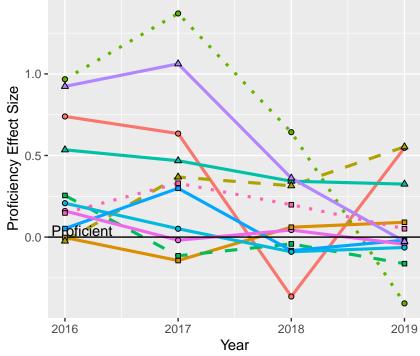
- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions: Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real–world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and integer exponents.



Students who stayed in district

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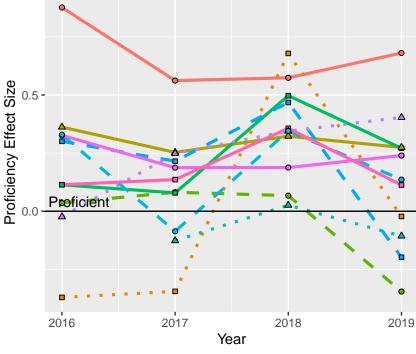




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- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
- Solve problems involving measurement and estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four
 operations, and identify and explain
- patterns in arithmetic.
 Understand concepts of area and relate area to multiplication and to addition.
 Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi–digit arithmetic.

Grade 4 Target Performance



Target

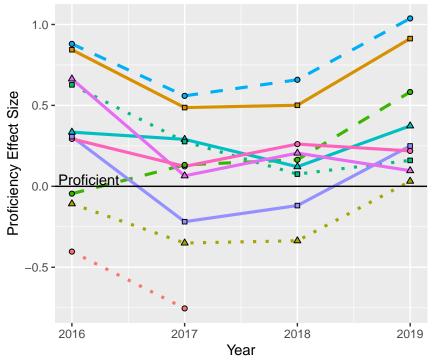
DRAFT

- Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.
- Draw and identify lines and angles, and classify shapes by properties of their lines and angles.
- Extend understanding of fraction equivalence and ordering.
 Gain familiarity with factors and
- multiples.
 Generalize place value understanding for multi-digit whole numbers.
- Generate and analyze patterns.
- Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.
- understand concepts of angle and measure angles.
- Understand decimal notation for fractions, and compare decimal fractions.
 Use place value understanding and
- or properties of operations to perform multi-digit arithmetic.
- Use the four operations with whole numbers to solve problems.

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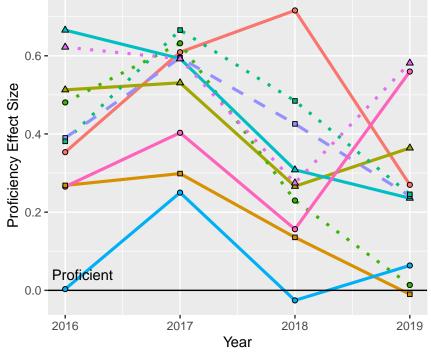
Grade 5 Target Performance





- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to multiply and divide fractions.
- Classify two-dimensional figures into categories based on their properties.
- Convert like measurement units within a given measurement system.
- Graph points on the coordinate plane to solve real–world and mathematical problems.
- Perform operations with multi–digit whole numbers and with decimals to
- hundredths.
 Understand concepts of volume and
- relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.
- solid = Major, dashed = Supporting, dotted = Additional

Grade 6 Target Performance



solid = Major, dashed = Supporting, dotted = Additional

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- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi–digit
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one-variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real–world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

MERIDEN SCHOOL DISTRICT DRAFT Common Domains for Grades 3-5 **Graduation Year** Proficient 0.0 2025 2026 Domain -0.2 **-**Geometry Measurement and Data Numbers and Operations: Base 10 Numbers and Operations: Fractions -0.4 -Operations and Algebraic Thinking

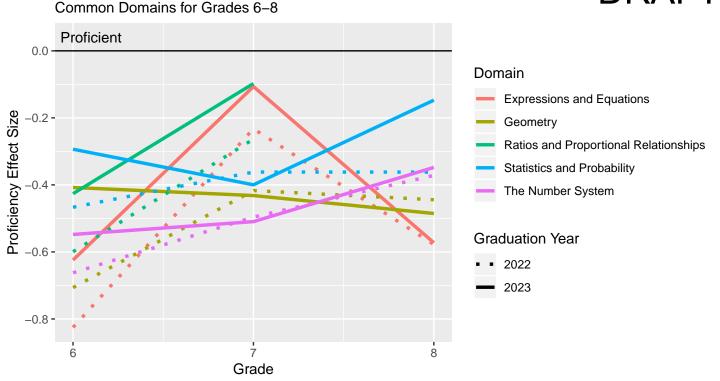
Proficiency Effect Size

3

Students who stayed in district

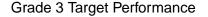
Grade

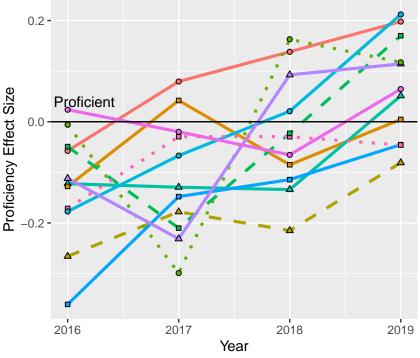




Students who stayed in district

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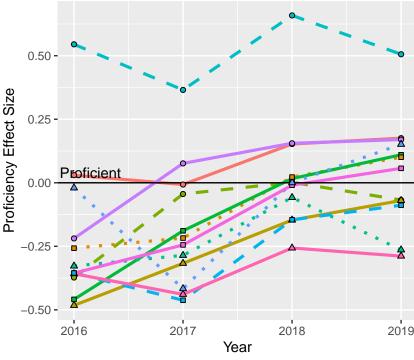


solid = Major, dashed = Supporting, dotted = Additional

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
- Solve problems involving measurement and estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four
 operations, and identify and explain
- patterns in arithmetic.
 Understand concepts of area and relate
- area to multiplication and to addition.

 Understand properties of multiplication
- and the relationship between multiplication and division.
 Use place value understanding and
- properties of arithmetic to perform multi–digit arithmetic.

Grade 4 Target Performance



solid = Major, dashed = Supporting, dotted = Additional

Target

DRAFT

Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.

Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

Extend understanding of fraction equivalence and ordering. Gain familiarity with factors and

multiples.

Generalize place value understanding for multi-digit whole numbers.

Generate and analyze patterns.

Represent and interpret data.

Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

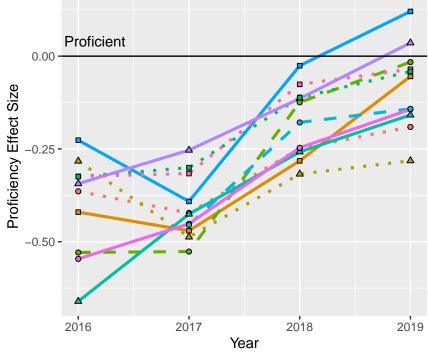
understand concepts of angle and measure angles. Understand decimal notation for

fractions, and compare decimal fractions.

Use place value understanding and properties of operations to perform multi-digit arithmetic.
Use the four operations with whole

numbers to solve problems.

Grade 5 Target Performance

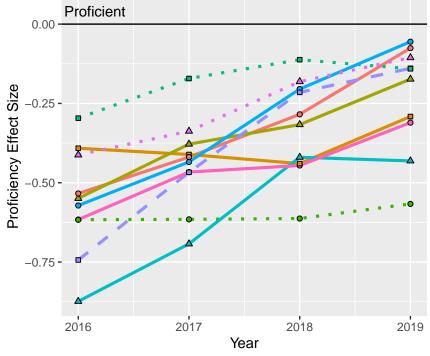


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- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two–dimensional figures into
- categories based on their properties.
 Convert like measurement units within a
- given measurement system.
 Graph points on the coordinate plane
- to solve real–world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance

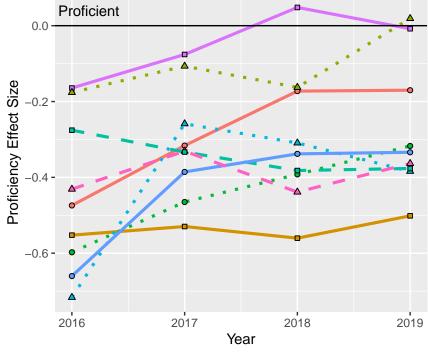


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DRAFT

- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi-digit
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one-variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real—world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance

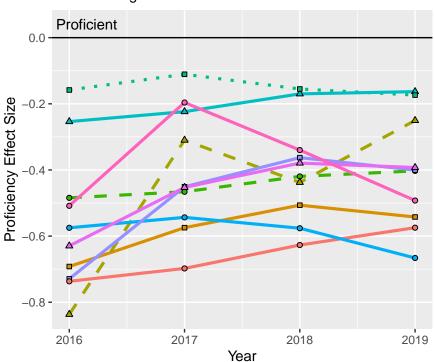


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DRAFT

- Analyze proportional relationships and use them to solve real-world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add,
- subtract, multiply, and divide rational numbers. Draw informal comparative inferences
- about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical
- problems involving angle measure, area, surface area, and volume. Solve real-life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- about a population.

Grade 8 Target Performance

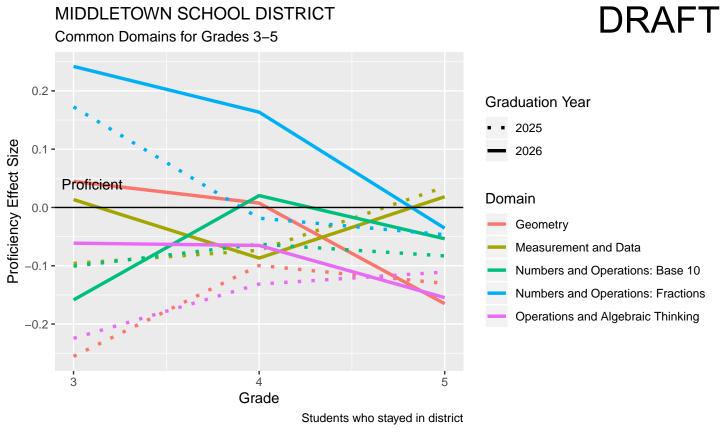


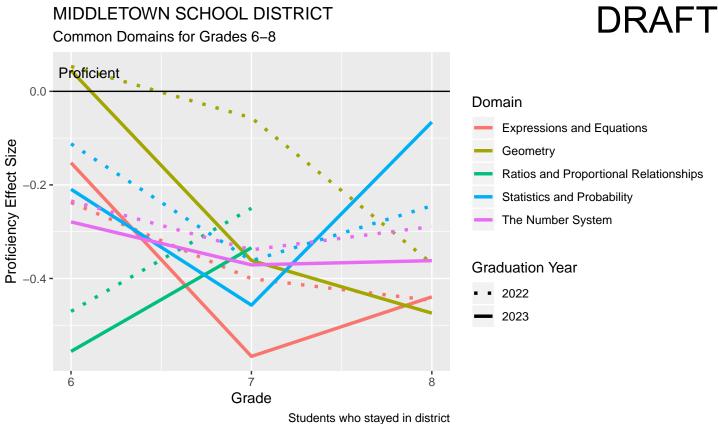
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Target

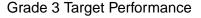
- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real—world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and integer exponents.

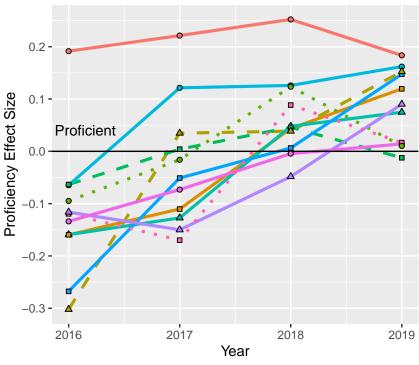
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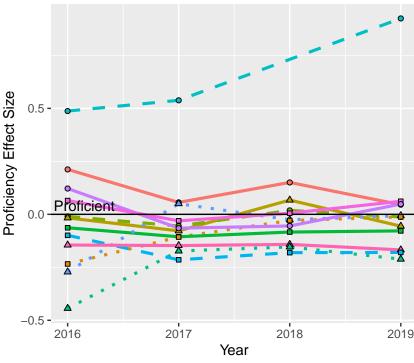




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- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division.
 Solve problems involving measurement and
 - Solve problems involving measurement and
 estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four
- operations, and identify and explain patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition.
 Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi–digit arithmetic.

Grade 4 Target Performance



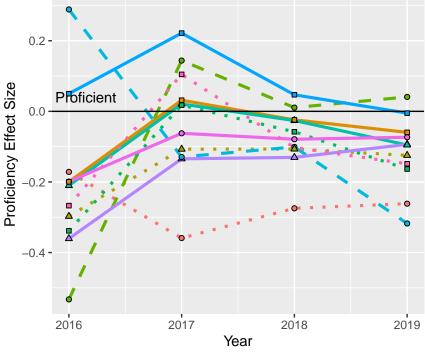
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Target

DRAFT

- Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.
- Draw and identify lines and angles, and classify shapes by properties of their
- lines and angles. Extend understanding of fraction
- equivalence and ordering. Gain familiarity with factors and multiples.
- Generalize place value understanding for multi-digit whole numbers.
- Generate and analyze patterns.
- Represent and interpret data.
- Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.
- understand concepts of angle and measure angles. Understand decimal notation for
- fractions, and compare decimal fractions.
- Use place value understanding and properties of operations to perform multi-digit arithmetic.
 Use the four operations with whole
- numbers to solve problems.

Grade 5 Target Performance

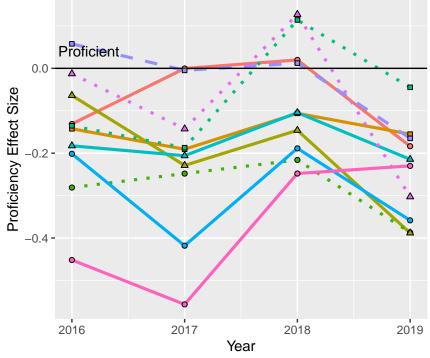


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- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two–dimensional figures into
- categories based on their properties.
 Convert like measurement units within a
- given measurement system.
 Graph points on the coordinate plane
- to solve real–world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance

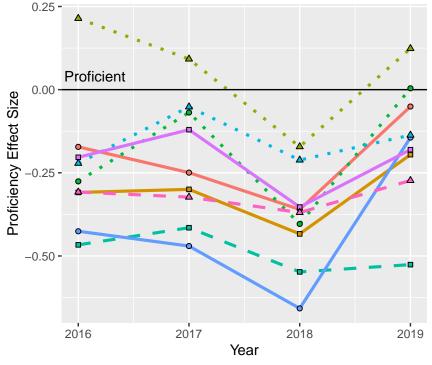


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DRAFT

- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi-digit
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one–variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real–world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance

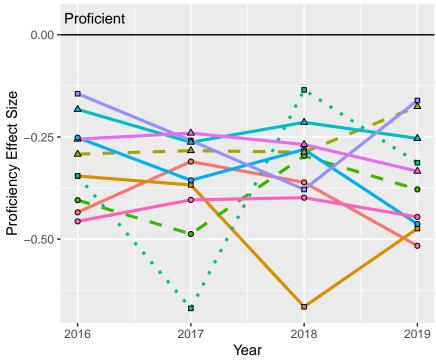


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DRAFT

- Analyze proportional relationships and use them to solve real-world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add,
- subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical problems involving angle measure, area,
- surface area, and volume. Solve real-life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- about a population.

Grade 8 Target Performance

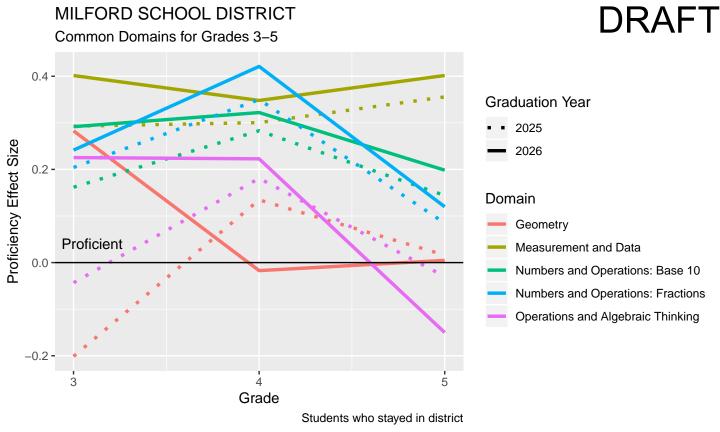


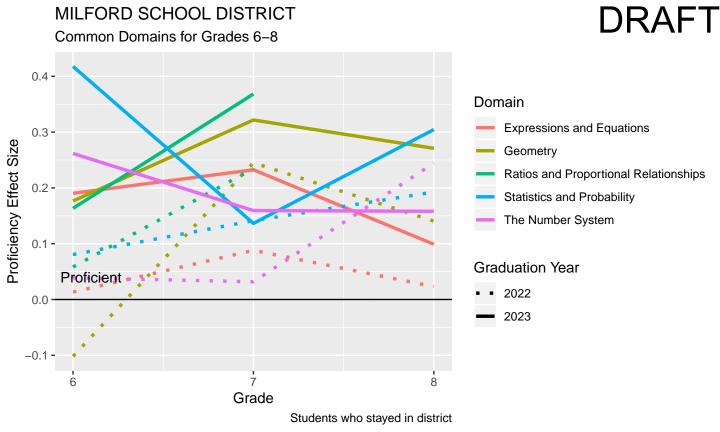
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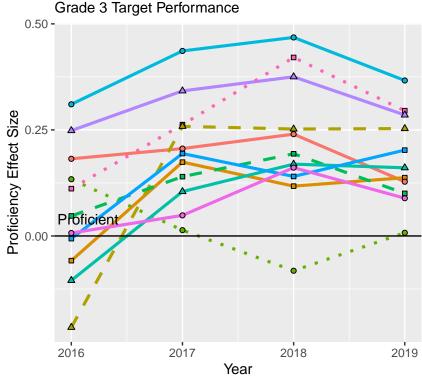
- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in
- bivariate data.

 Know that there are numbers that are
- not rational, and approximate them by rational numbers.
- Solve real—world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and integer exponents.





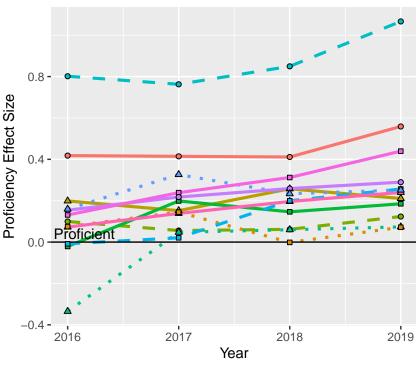
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Target

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
 - Solve problems involving measurement and estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four
- operations, and identify and explain patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition.
 Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi-digit arithmetic.

Grade 4 Target Performance



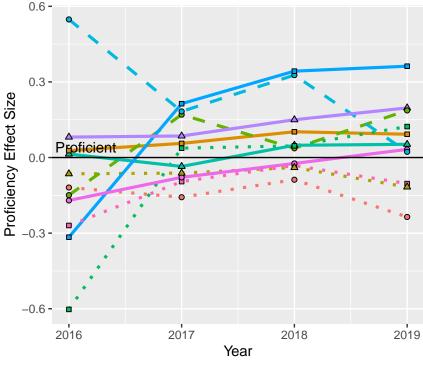
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Target

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- Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.
- Draw and identify lines and angles, and classify shapes by properties of their lines and angles.
- Extend understanding of fraction equivalence and ordering. Gain familiarity with factors and
- multiples. Generalize place value understanding for
- multi-digit whole numbers.
- Generate and analyze patterns.
- Represent and interpret data.
- Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.
- understand concepts of angle and measure angles. Understand decimal notation for
- fractions, and compare decimal fractions.
- Use place value understanding and properties of operations to perform multi-digit arithmetic.
 Use the four operations with whole
- numbers to solve problems.

Grade 5 Target Performance

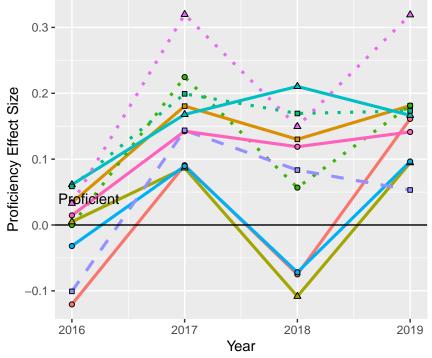


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- Analyze patterns and relationships.
- Apply and extend previous understandings
 of multiplication and division to
- multiply and divide fractions.
 Classify two–dimensional figures into
- categories based on their properties.
 Convert like measurement units within a given measurement system.
- Graph points on the coordinate plane to solve real–world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance

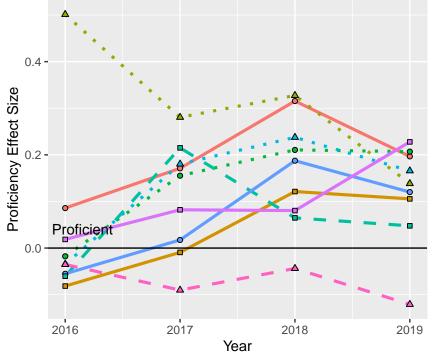


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DRAFT

- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi-digit
 numbers and find common factors and
- multiples.
 Develop understanding of statistical variability.
- Reason about and solve one–variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real—world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance



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Target

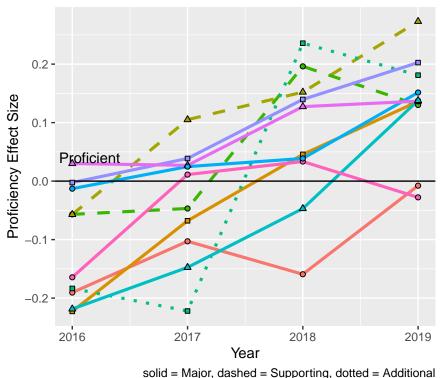
numbers.

- Analyze proportional relationships and use them to solve real—world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical problems involving angle measure, area,
- surface area, and volume.

 Solve real–life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- Use random sampling to draw inference about a population.

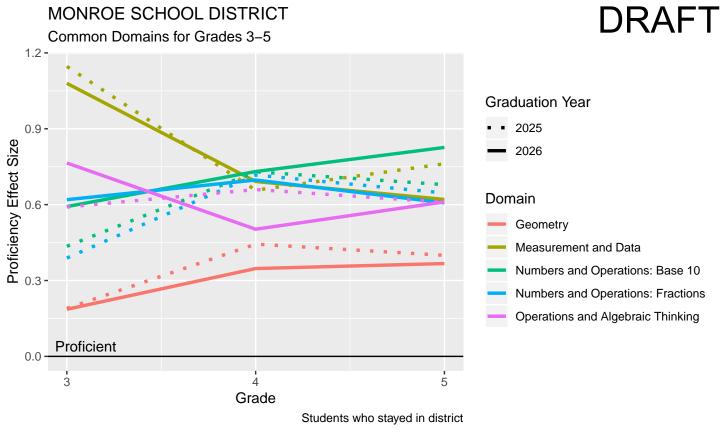
Grade 8 Target Performance

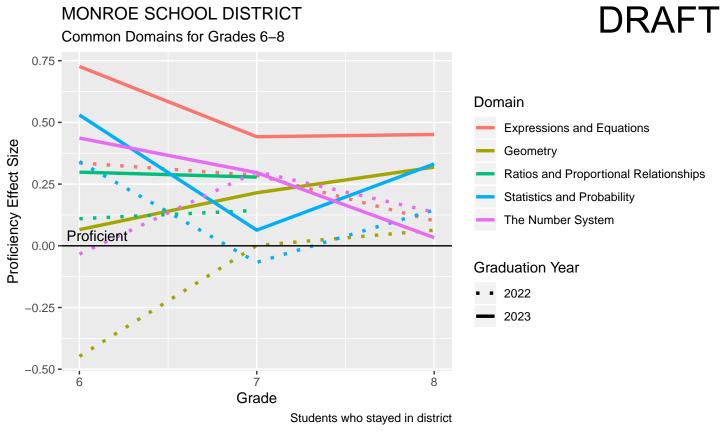




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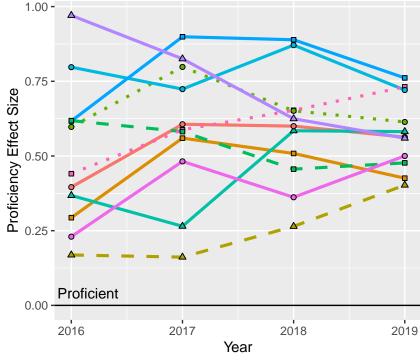
- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real—world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and integer exponents.





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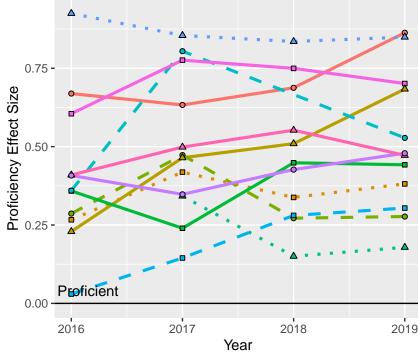




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- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
- Solve problems involving measurement and estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four
- operations, and identify and explain patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi–digit arithmetic.

Grade 4 Target Performance



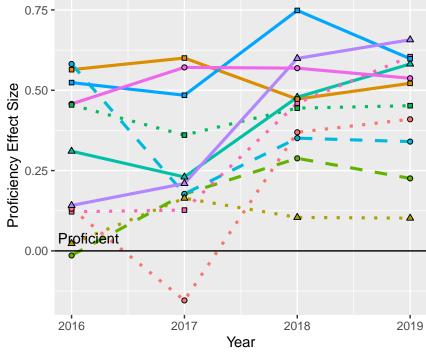
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Target

DRAFT

- Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.
- Draw and identify lines and angles, and classify shapes by properties of their lines and angles.
- Extend understanding of fraction equivalence and ordering. Gain familiarity with factors and
- multiples. Generalize place value understanding for
- multi-digit whole numbers.
- Generate and analyze patterns.
- Represent and interpret data.
- Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.
- understand concepts of angle and measure angles. Understand decimal notation for
- fractions, and compare decimal fractions. Use place value understanding and
- properties of operations to perform multi-digit arithmetic.
 Use the four operations with whole
- numbers to solve problems.

Grade 5 Target Performance



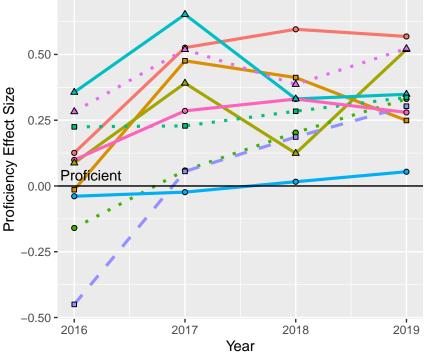
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- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two–dimensional figures into
- categories based on their properties.
 Convert like measurement units within a
- given measurement system.

 Graph points on the coordinate plane
- to solve real–world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance

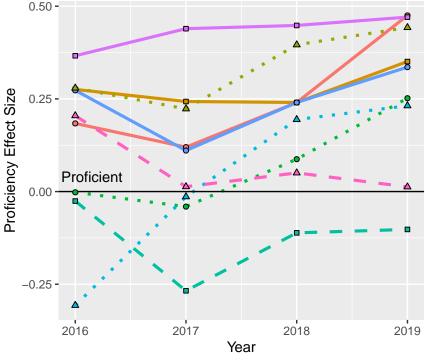


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Target

- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational numbers.
- Compute fluently with multi-digit numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one-variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real–world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance

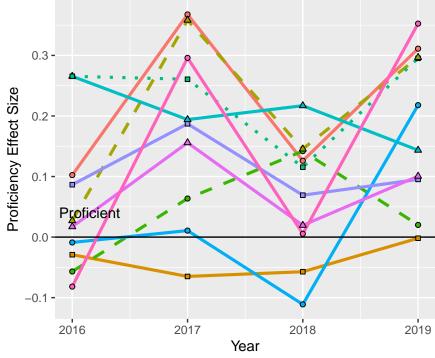


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- Analyze proportional relationships and use them to solve real—world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add,
- of operations with fractions to add, subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- • figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real–life and mathematical problems involving angle measure, area,
- surface area, and volume.
 Solve real–life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- Use random sampling to draw inference about a population.

Grade 8 Target Performance



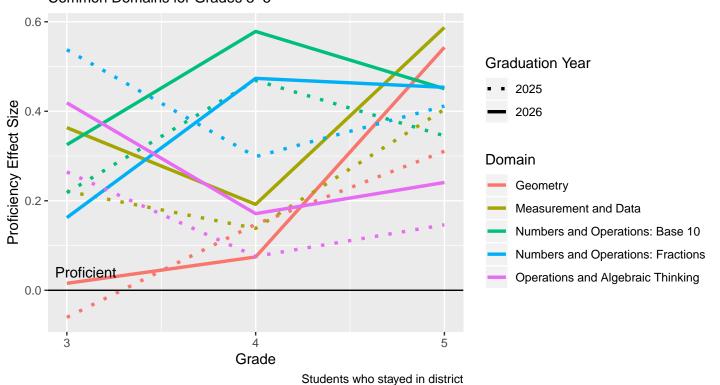
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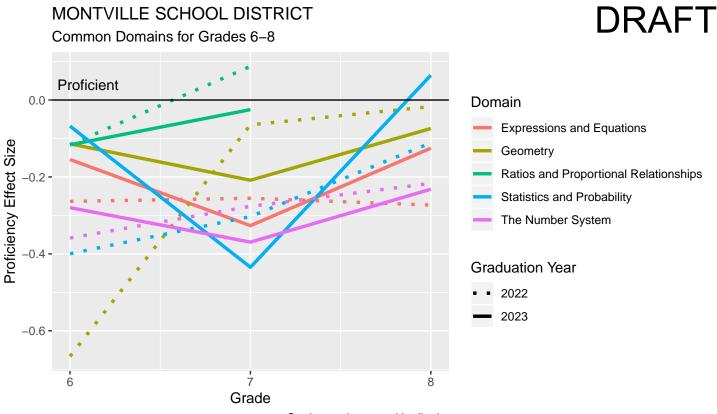
Target

- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real—world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
- Work with radicals and integer exponents.

MONTVILLE SCHOOL DISTRICT Common Domains for Grades 3–5



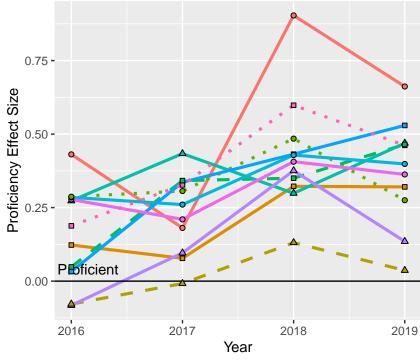




Students who stayed in district

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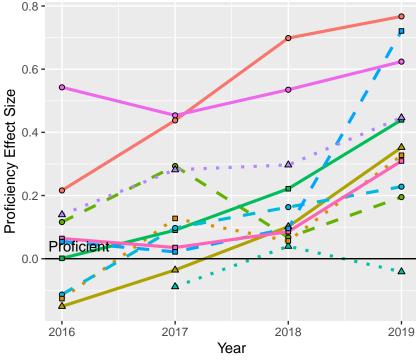




solid = Major, dashed = Supporting, dotted = Additional

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- A Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
 - Solve problems involving measurement and estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four
 operations, and identify and explain
- patterns in arithmetic.
 Understand concepts of area and relate area to multiplication and to addition.
 Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi-digit arithmetic.

Grade 4 Target Performance



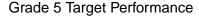
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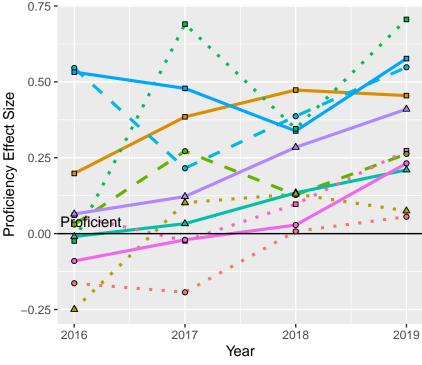
DRAFT

- Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.
- Draw and identify lines and angles, and classify shapes by properties of their lines and angles.
- Extend understanding of fraction equivalence and ordering.
 Gain familiarity with factors and
- multiples.
 Generalize place value understanding for multi-digit whole numbers.
- Generate and analyze patterns.
- Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.
- understand concepts of angle and measure angles.
- Understand decimal notation for fractions, and compare decimal fractions.
- Use place value understanding and properties of operations to perform multi-digit arithmetic.

 Use the four operations with whole
- Use the four operations with whole numbers to solve problems.

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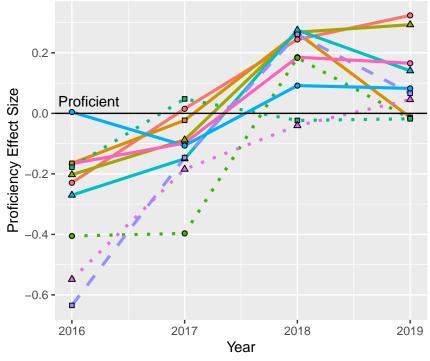


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- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two–dimensional figures into
- categories based on their properties.
 Convert like measurement units within a given measurement system.
- Graph points on the coordinate plane
- to solve real–world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

DRAFT

Grade 6 Target Performance

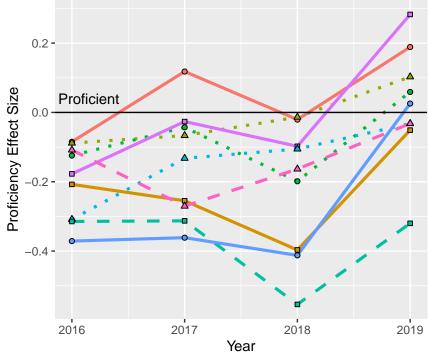


Target

- Apply and extend previous understandings of arithmetic to algebraic expressions.

 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi–digit
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one-variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real–world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance



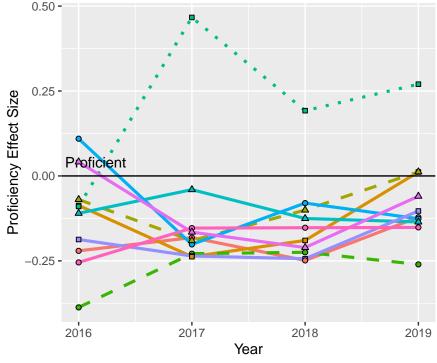
DRAFT

Target

- Analyze proportional relationships and use them to solve real—world and mathematical problems.
 - Apply and extend previous understandings of operations with fractions to add
- of operations with fractions to add, subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- • figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical problems involving angle measure, area,
- surface area, and volume.
 Solve real–life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- Use random sampling to draw inferences about a population.

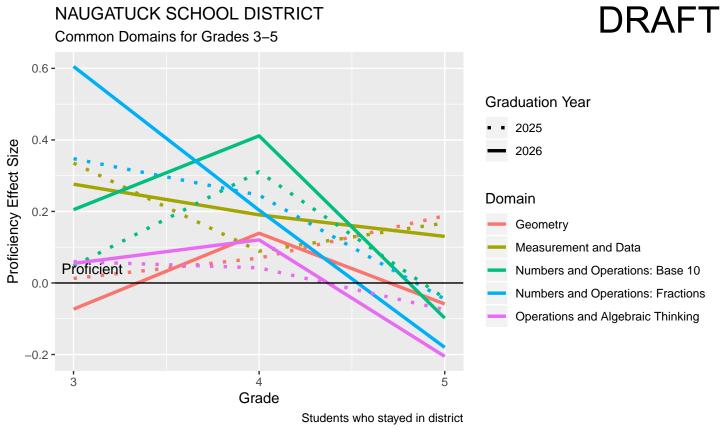
Grade 8 Target Performance

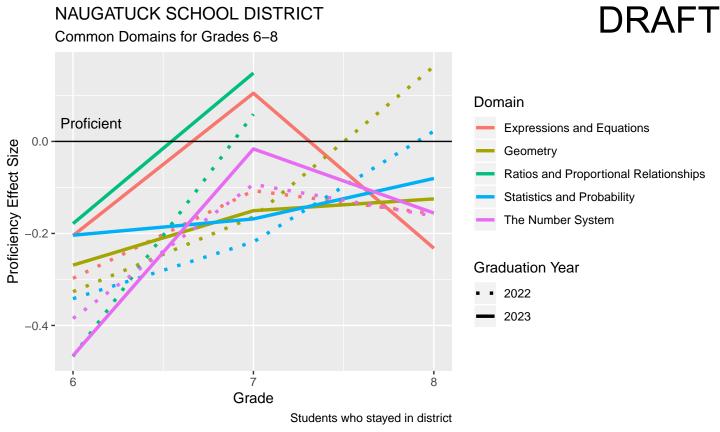




Target

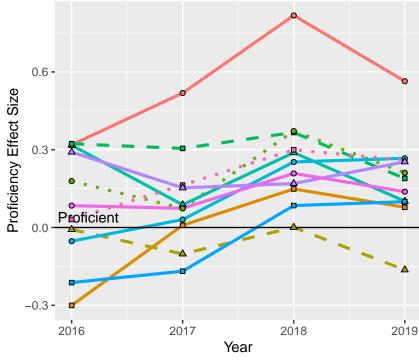
- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions: Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real-world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities. Work with radicals and integer
- exponents.





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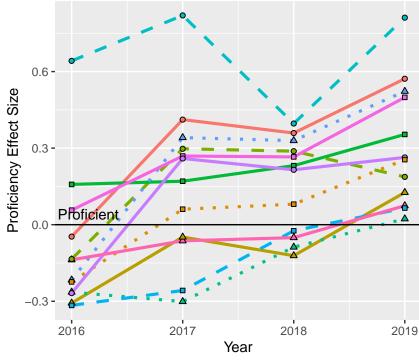




solid = Major, dashed = Supporting, dotted = Additional

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- A Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
 - estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four operations, and identify and explain patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi–digit arithmetic.

Grade 4 Target Performance



solid = Major, dashed = Supporting, dotted = Additional

Target

DRAFT

Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.

Draw and identify lines and angles, and classify shapes by properties of their

lines and angles. Extend understanding of fraction equivalence and ordering. Gain familiarity with factors and

multiples.

Generalize place value understanding for multi-digit whole numbers.

Generate and analyze patterns.

Represent and interpret data.

Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

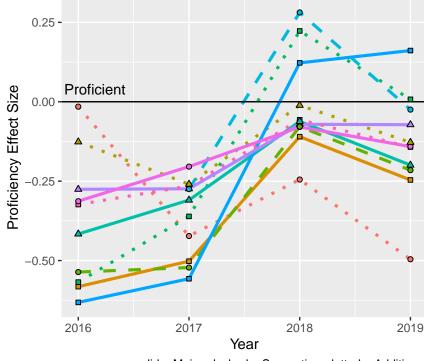
understand concepts of angle and measure angles. Understand decimal notation for

fractions, and compare decimal fractions.

Use place value understanding and properties of operations to perform multi-digit arithmetic.
Use the four operations with whole

numbers to solve problems.

Grade 5 Target Performance



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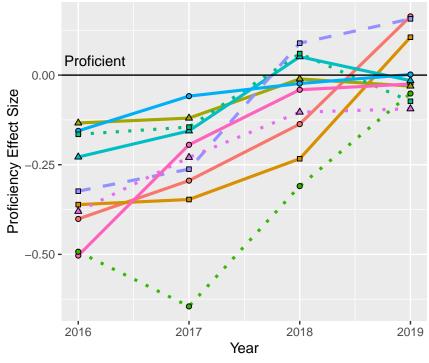
DRAFT

- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two-dimensional figures into
 - categories based on their properties.
 Convert like measurement units within a
- given measurement system.

 Graph points on the coordinate plane
- to solve real-world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance

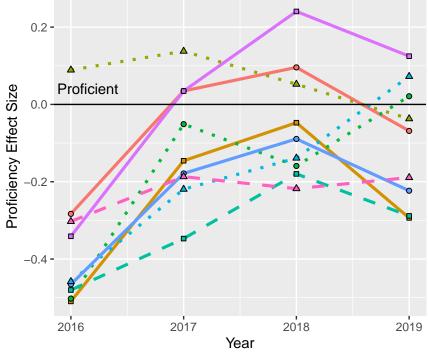
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Target

- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi–digit
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one-variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real-world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance



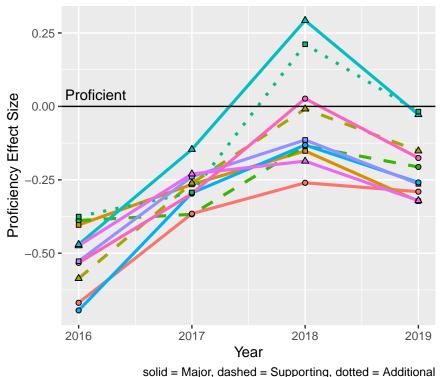
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DRAFT

- Analyze proportional relationships and use them to solve real–world and mathematical problems.
- Apply and extend previous understandings
- of operations with fractions to add, subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- • figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real–life and mathematical problems involving angle measure, area, surface area, and volume.
- Solve real–life and mathematical problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- Use random sampling to draw inference about a population.

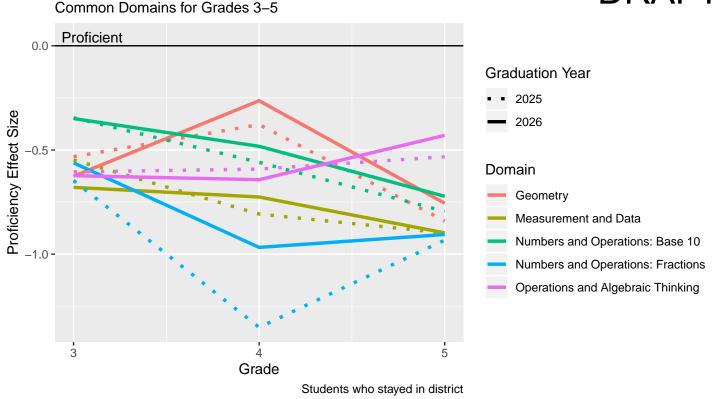
Grade 8 Target Performance



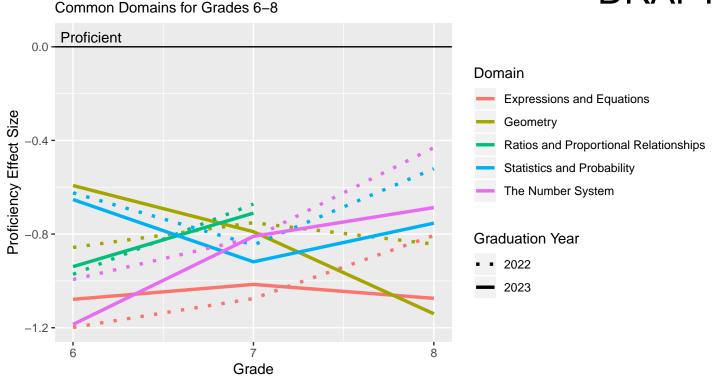


- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real–world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and integer exponents.



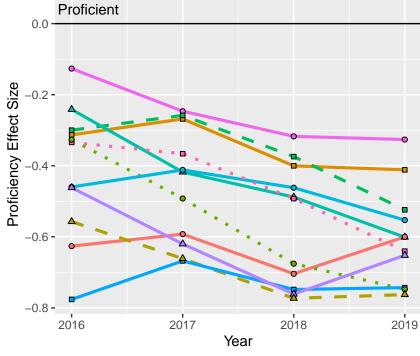






Students who stayed in district

Grade 3 Target Performance

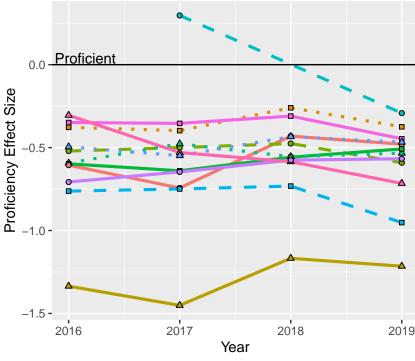


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- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division.
 - multiplication and division.
 Solve problems involving measurement and
 estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four
 operations, and identify and explain
- patterns in arithmetic.
 Understand concepts of area and relate area to multiplication and to addition.
- Understand properties of multiplication and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi-digit arithmetic.

Grade 4 Target Performance



solid = Major, dashed = Supporting, dotted = Additional

Target

DRAFT

Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.

Draw and identify lines and angles, and classify shapes by properties of their

lines and angles.

Extend understanding of fraction equivalence and ordering. Gain familiarity with factors and multiples.

Generalize place value understanding for multi-digit whole numbers.

Generate and analyze patterns.

Represent and interpret data.

Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

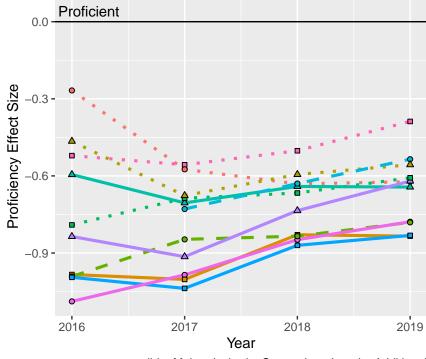
understand concepts of angle and measure angles. Understand decimal notation for

fractions, and compare decimal fractions. Use place value understanding and

properties of operations to perform multi-digit arithmetic.
Use the four operations with whole

numbers to solve problems.

Grade 5 Target Performance



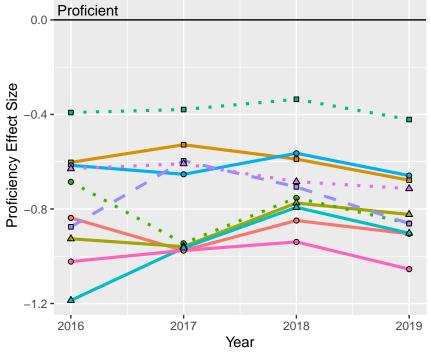
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DRAFT

- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two-dimensional figures into
- categories based on their properties.
 Convert like measurement units within a given measurement system.
 Graph points on the coordinate plane
- to solve real–world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

NEW BRITAIN SCHOOL DISTRICT

Grade 6 Target Performance



solid = Major, dashed = Supporting, dotted = Additional

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Target

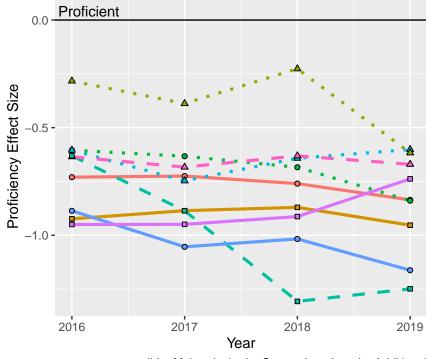
numbers.

- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- Compute fluently with multi–digit numbers and find common factors and
- multiples.

 Develop understanding of statistical
- Develop understanding of statistical variability.
- Reason about and solve one-variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real—world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

NEW BRITAIN SCHOOL DISTRICT

Grade 7 Target Performance



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Target

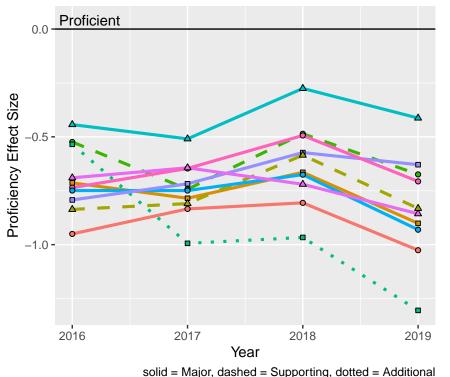
- Analyze proportional relationships and use them to solve real-world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add,
- subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical problems involving angle measure, area,
- surface area, and volume. Solve real-life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- about a population.

solid = Major, dashed = Supporting, dotted = Additional

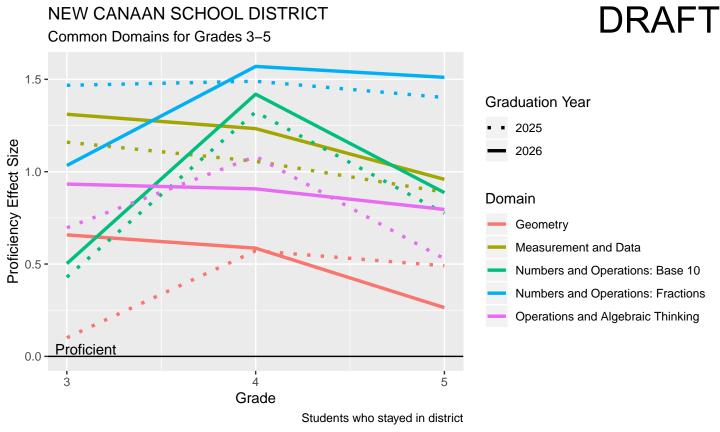
NEW BRITAIN SCHOOL DISTRICT

Grade 8 Target Performance



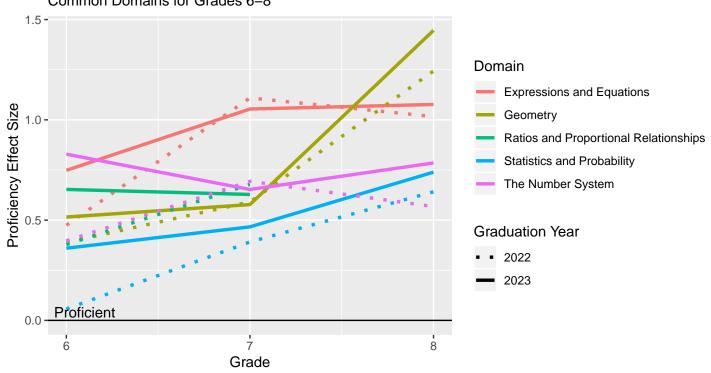


- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real–world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and integer exponents.



NEW CANAAN SCHOOL DISTRICT Common Domains for Grades 6–8

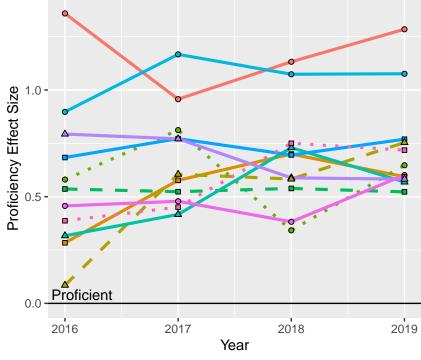




Students who stayed in district

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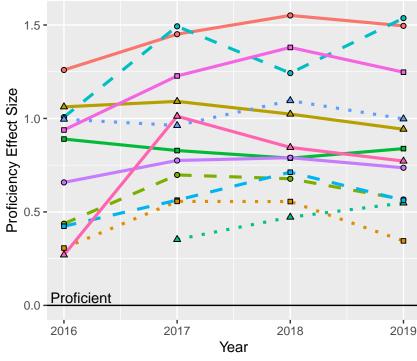




solid = Major, dashed = Supporting, dotted = Additional

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
- solve problems involving measurement and estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four
- operations, and identify and explain patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi–digit arithmetic.

Grade 4 Target Performance



solid = Major, dashed = Supporting, dotted = Additional

Target

DRAFT

Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.

Draw and identify lines and angles, and classify shapes by properties of their

lines and angles. Extend understanding of fraction equivalence and ordering. Gain familiarity with factors and

multiples.

Generalize place value understanding for multi-digit whole numbers.

Generate and analyze patterns.

Represent and interpret data.

Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

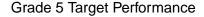
understand concepts of angle and measure angles. Understand decimal notation for

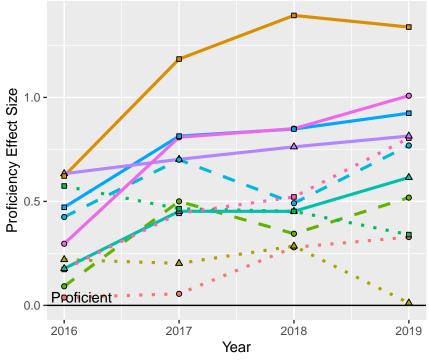
fractions, and compare decimal fractions. Use place value understanding and

properties of operations to perform multi-digit arithmetic.
Use the four operations with whole

numbers to solve problems.

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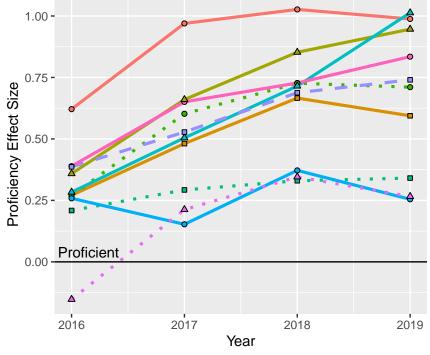




solid = Major, dashed = Supporting, dotted = Additional

- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two-dimensional figures into
- categories based on their properties.
 Convert like measurement units within a
- given measurement system.
 Graph points on the coordinate plane
- to solve real–world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance



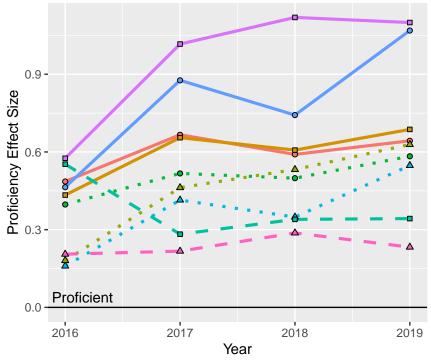
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Target

- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi-digit
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one–variable equations and inequalities. Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real-world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

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Grade 7 Target Performance



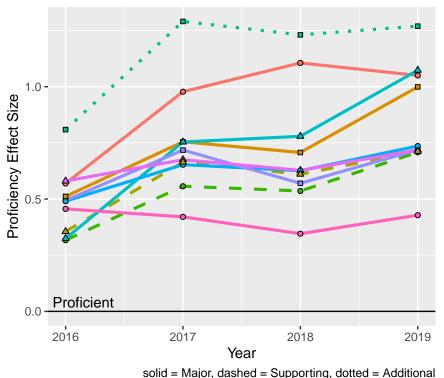
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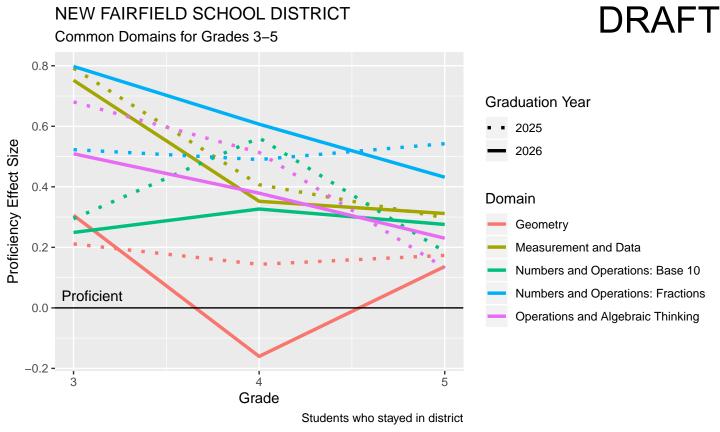
- Analyze proportional relationships and use them to solve real-world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add,
- subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical problems involving angle measure, area, surface area, and volume.
- Solve real-life and mathematical problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate
- equivalent expressions.
 Use random sampling to draw inferences about a population.

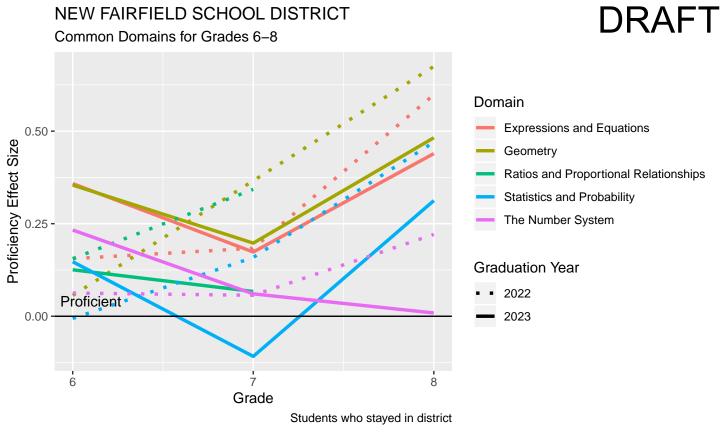
Grade 8 Target Performance



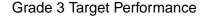


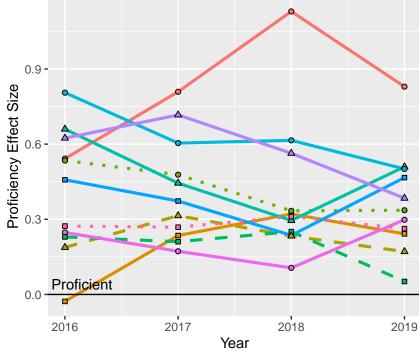
- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by
- rational numbers.
 Solve real-world and mathematical problems involving volume of cylinders,
- cones and spheres.
 Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies,
- or geometry software.
 Understand the connections between proportional relationships, lines, and
- linear equations.
 Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and integer exponents.





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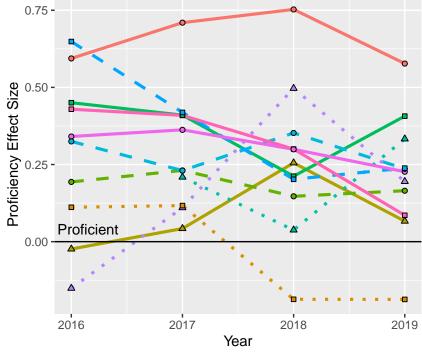


solid = Major, dashed = Supporting, dotted = Additional

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division.
 Solve problems involving measurement and
 - Solve problems involving measurement and estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four
 operations, and identify and explain
- patterns in arithmetic.
 Understand concepts of area and relate area to multiplication and to addition.
- Understand properties of multiplication and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi–digit arithmetic.

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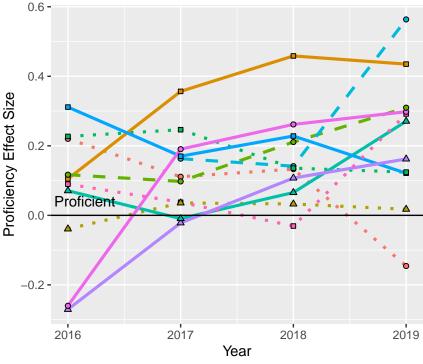


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- Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.
- Draw and identify lines and angles, and classify shapes by properties of their lines and angles.
- Extend understanding of fraction equivalence and ordering.
 Gain familiarity with factors and
- multiples.
 Generalize place value understanding for multi–digit whole numbers.
- Generate and analyze patterns.
 - Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.
- understand concepts of angle and measure angles.
- Understand decimal notation for fractions, and compare decimal fractions.
 Use place value understanding and
- o properties of operations to perform multi-digit arithmetic.

 Use the four operations with whole
- Use the four operations with whol numbers to solve problems.

Grade 5 Target Performance



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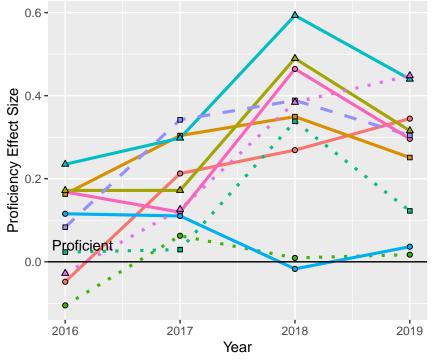
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- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two-dimensional figures into
- categories based on their properties.
 Convert like measurement units within a
- given measurement system.

 Graph points on the coordinate plane
- to solve real–world and mathematical problems.

 Perform operations with multi–digit
- whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance

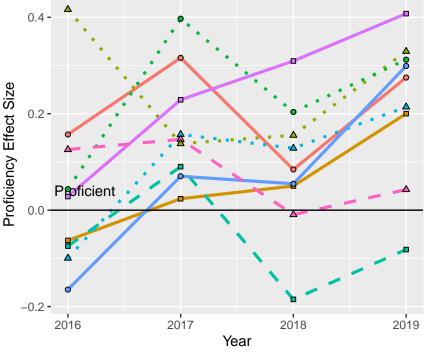


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- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi-digit
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one–variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real–world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance



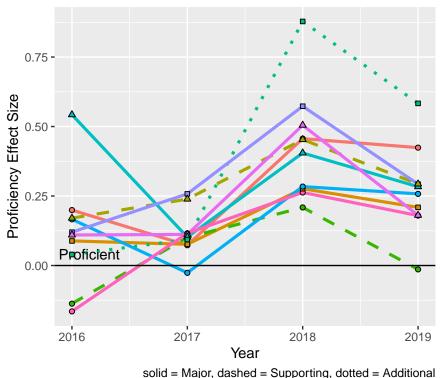
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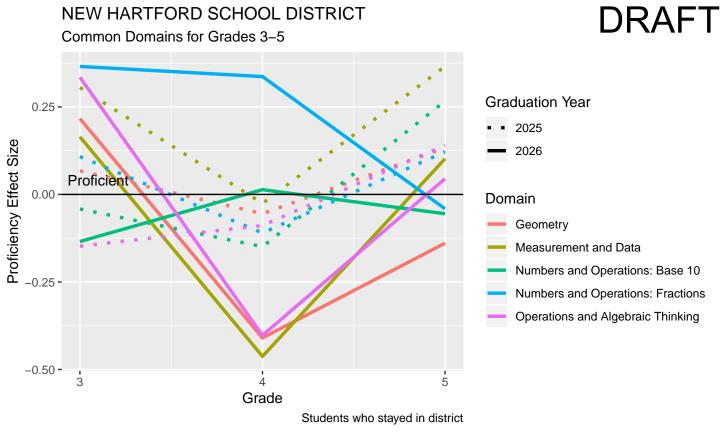
- Analyze proportional relationships and use them to solve real-world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add,
- subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical problems involving angle measure, area, surface area, and volume.
- Solve real-life and mathematical problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- about a population.

Grade 8 Target Performance

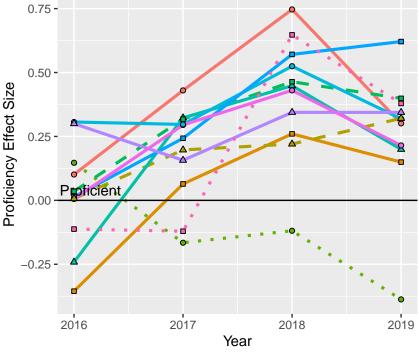




- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real—world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and integer exponents.



Grade 3 Target Performance

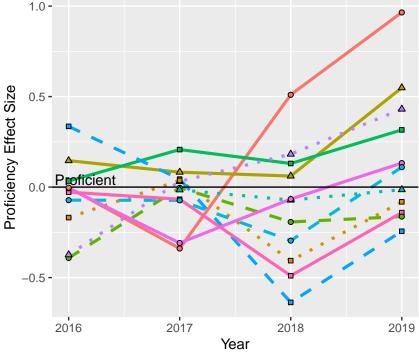


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DRAFT

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
- estimation of intervals of time, liquid
- volumes, and masses of objects. Solve problems involving the four operations, and identify and explain
- patterns in arithmetic. Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division. Use place value understanding and
- properties of arithmetic to perform multi-digit arithmetic.

Grade 4 Target Performance



solid = Major, dashed = Supporting, dotted = Additional

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Target

Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.

 Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

Extend understanding of fraction equivalence and ordering.
Gain familiarity with factors and

multiples.
Generalize place value understanding for multi–digit whole numbers.

Generate and analyze patterns.

Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

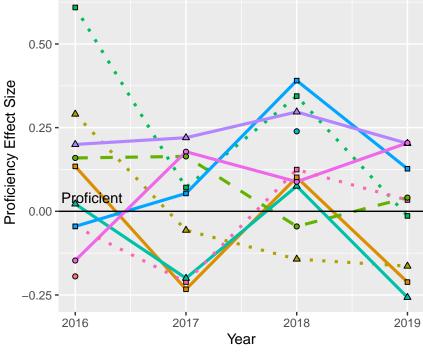
understand concepts of angle and measure angles.

Understand decimal notation for fractions, and compare decimal fractions.

Use place value understanding and properties of operations to perform multi-digit arithmetic.

Use the four operations with whole numbers to solve problems.

Grade 5 Target Performance

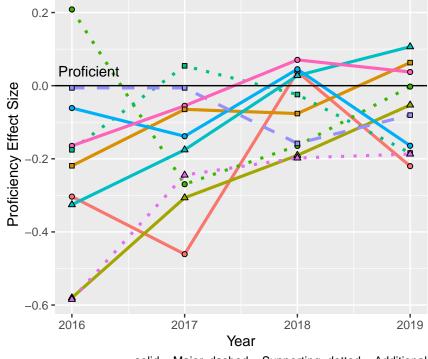


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DRAFT

- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two-dimensional figures into
- categories based on their properties.
 Convert like measurement units within a given measurement system.
- Graph points on the coordinate plane to solve real–world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance



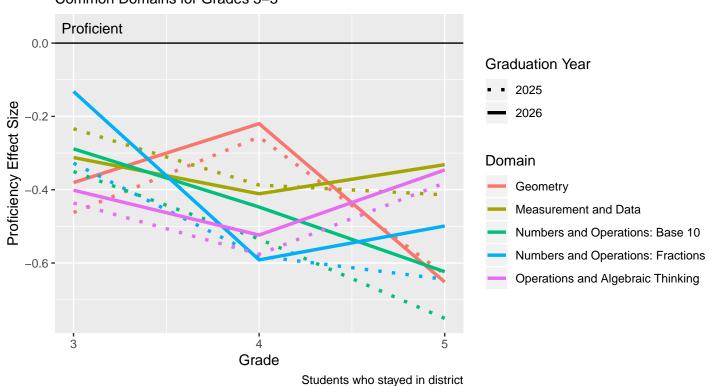
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- Apply and extend previous understandings of arithmetic to algebraic expressions. Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
 - numbers. Compute fluently with multi-digit
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one-variable equations and inequalities. Represent and analyze quantitative
- relationships between dependent and independent variables. Solve real-world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

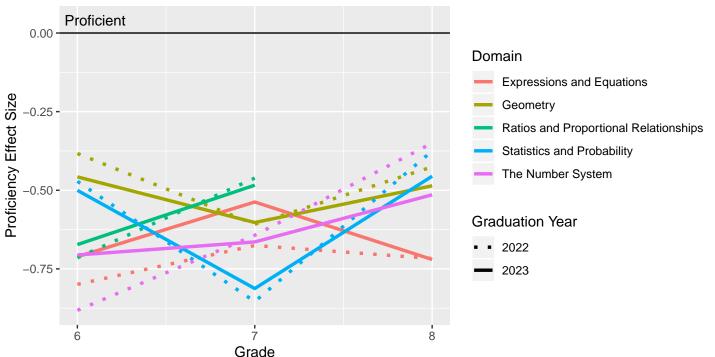
NEW HAVEN SCHOOL DISTRICT Common Domains for Grades 3–5





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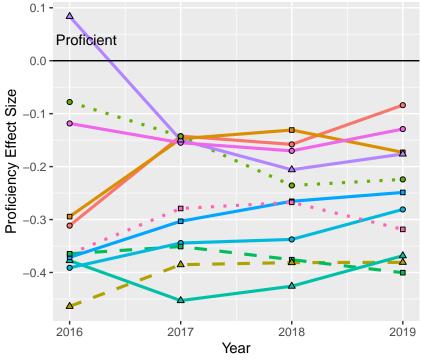




Students who stayed in district

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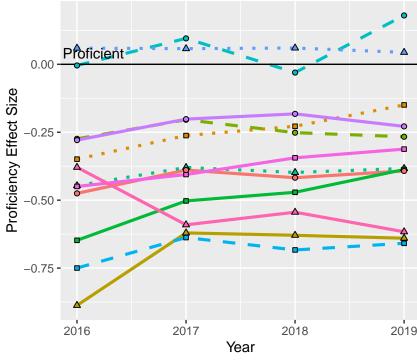




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- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
 - estimation of intervals of time, liquid
- volumes, and masses of objects. Solve problems involving the four operations, and identify and explain
- patterns in arithmetic. Understand concepts of area and relate
- area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division. Use place value understanding and
- properties of arithmetic to perform multi-digit arithmetic.

Grade 4 Target Performance



solid = Major, dashed = Supporting, dotted = Additional

Target

DRAFT

Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.

Draw and identify lines and angles, and classify shapes by properties of their

lines and angles. Extend understanding of fraction equivalence and ordering.

Gain familiarity with factors and multiples.

Generalize place value understanding for multi-digit whole numbers.

Generate and analyze patterns.

Represent and interpret data.

Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

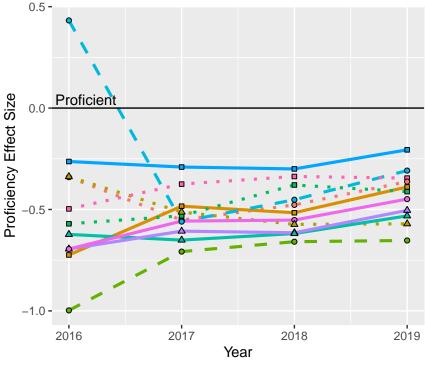
understand concepts of angle and measure angles. Understand decimal notation for

fractions, and compare decimal fractions.

Use place value understanding and properties of operations to perform multi-digit arithmetic.
Use the four operations with whole

numbers to solve problems.

Grade 5 Target Performance

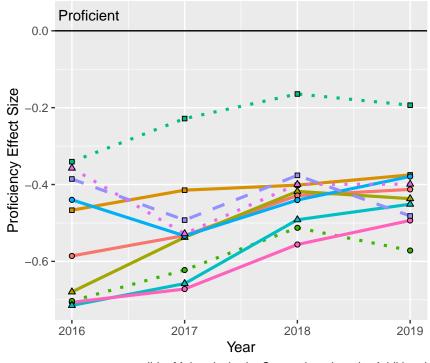


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- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two-dimensional figures into
- categories based on their properties.
 Convert like measurement units within a given measurement system.
- Graph points on the coordinate plane to solve real–world and mathematical
- to solve real–world and mathematical problems.
 Perform operations with multi–digit
- whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance

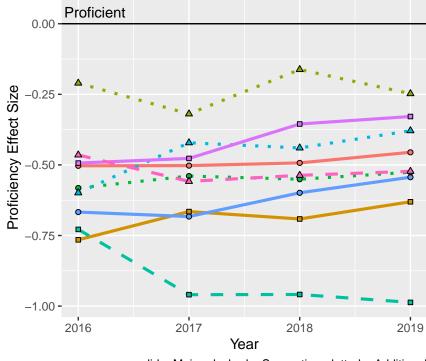


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DRAFT

- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi-digit
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one-variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real–world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance



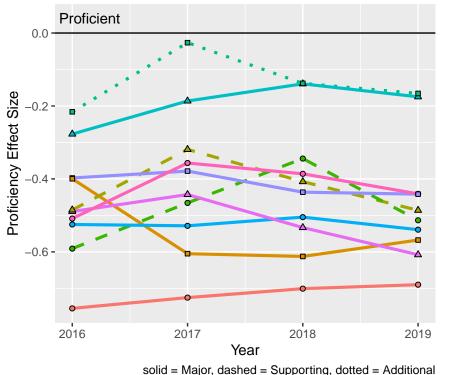
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DRAFT

- Analyze proportional relationships and use them to solve real—world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical
- problems involving angle measure, area, surface area, and volume. Solve real-life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
- Use random sampling to draw inferences about a population.

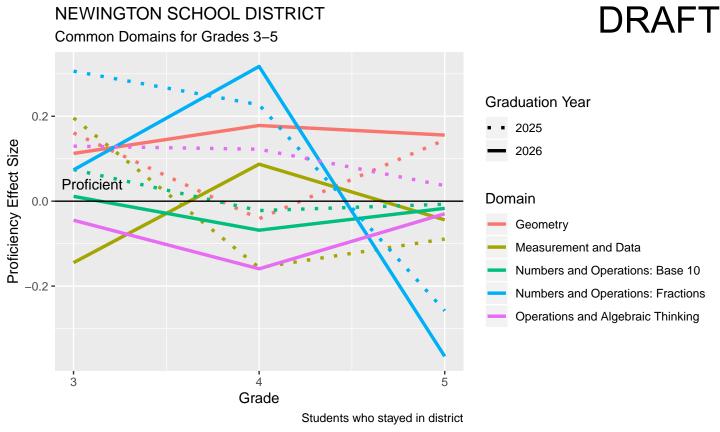
Grade 8 Target Performance

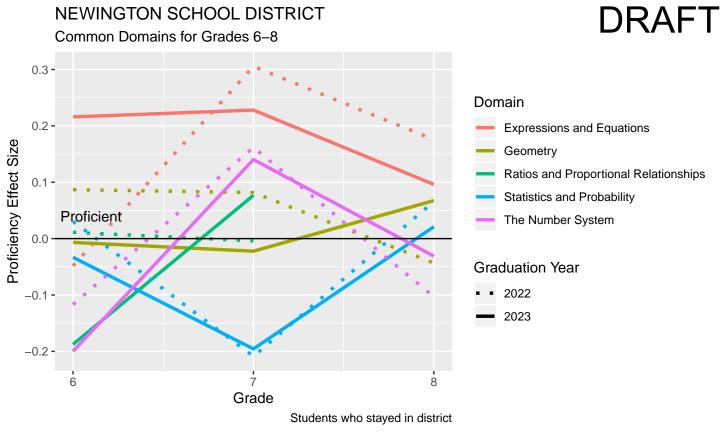




Target

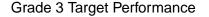
- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real—world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and integer exponents.

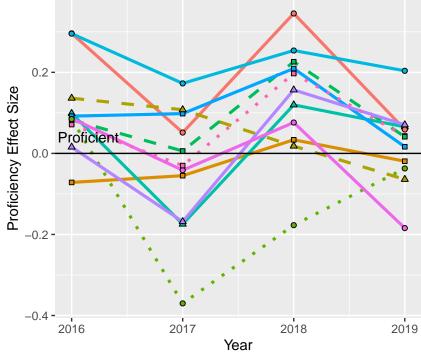




NEWINGTON SCHOOL DISTRICT

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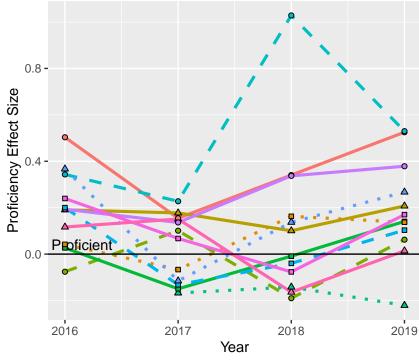


solid = Major, dashed = Supporting, dotted = Additional

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
- estimation of intervals of time, liquid
- volumes, and masses of objects. Solve problems involving the four
- operations, and identify and explain patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi-digit arithmetic.

NEWINGTON SCHOOL DISTRICT

Grade 4 Target Performance



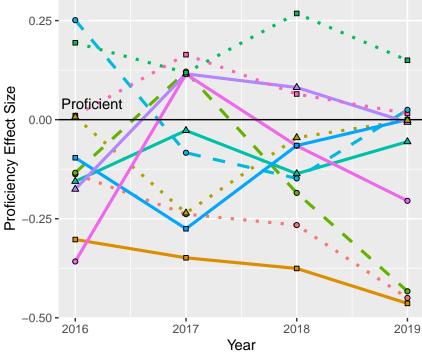
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Target

DRAFT

- Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.
- Draw and identify lines and angles, and classify shapes by properties of their lines and angles.
- Extend understanding of fraction equivalence and ordering. Gain familiarity with factors and
- multiples. Generalize place value understanding for
- multi-digit whole numbers.
- Generate and analyze patterns.
- Represent and interpret data.
- Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.
- understand concepts of angle and measure angles. Understand decimal notation for
- fractions, and compare decimal fractions.
- Use place value understanding and properties of operations to perform multi-digit arithmetic.
 Use the four operations with whole
- numbers to solve problems.

Grade 5 Target Performance

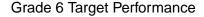


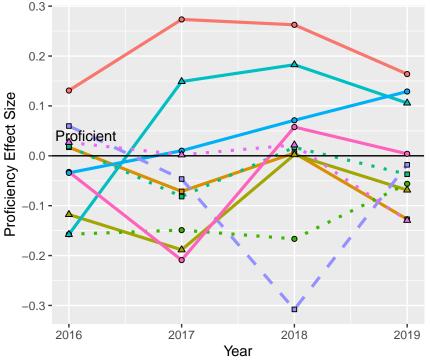
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DRAFT

- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two-dimensional figures into
- categories based on their properties.
 Convert like measurement units within a given measurement system.
- Graph points on the coordinate plane
- to solve real–world and mathematical problems.
 Perform operations with multi–digit
- whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

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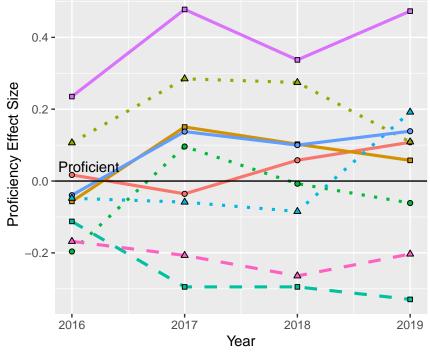




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- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi-digit
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one–variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real–world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance



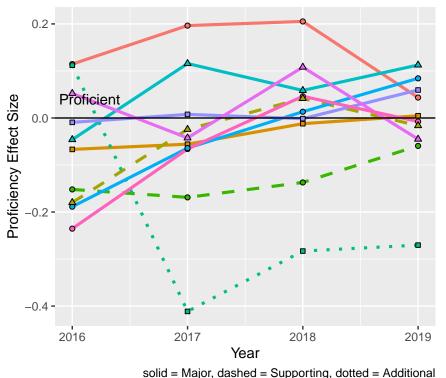
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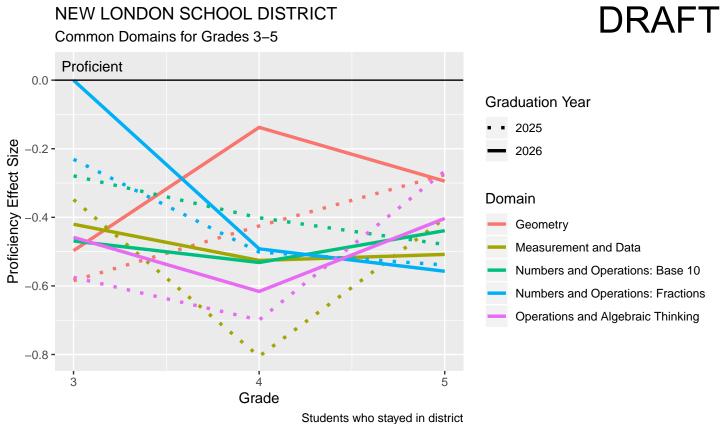
- Analyze proportional relationships and use them to solve real—world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add,
- of operations with fractions to add, subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical
- problems involving angle measure, area, surface area, and volume.
 Solve real-life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- Use random sampling to draw inference about a population.

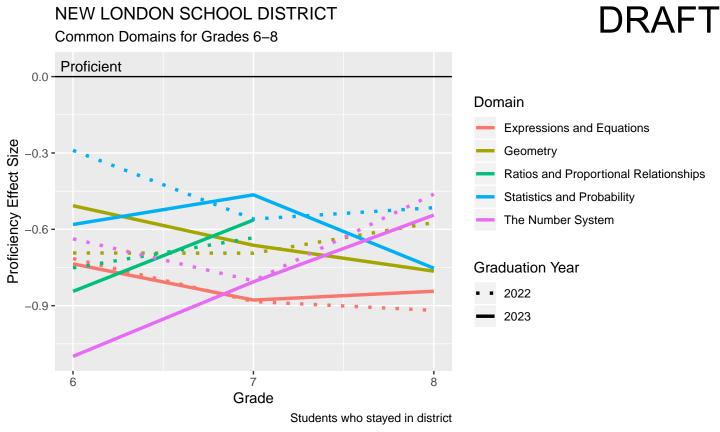
Grade 8 Target Performance



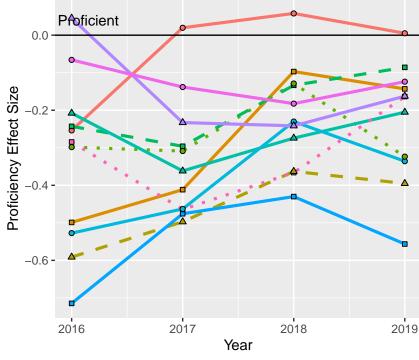


- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real—world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and integer exponents.





Grade 3 Target Performance

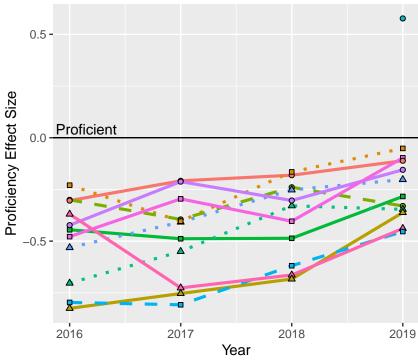


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- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
 - estimation of intervals of time, liquid
- volumes, and masses of objects. Solve problems involving the four
- operations, and identify and explain patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi-digit arithmetic.

Grade 4 Target Performance



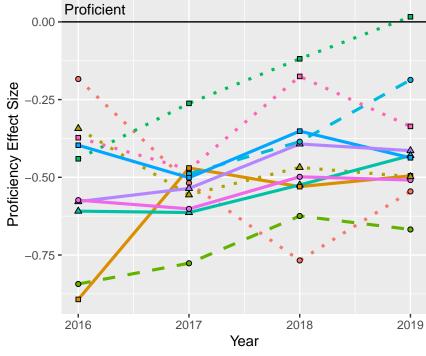
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Target

DRAFT

- Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.
- Draw and identify lines and angles, and classify shapes by properties of their lines and angles.
- Extend understanding of fraction equivalence and ordering. Gain familiarity with factors and multiples.
- Generalize place value understanding for multi-digit whole numbers.
- Generate and analyze patterns.
- Represent and interpret data.
- Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.
- understand concepts of angle and measure angles. Understand decimal notation for
- fractions, and compare decimal fractions.
- Use place value understanding and properties of operations to perform multi-digit arithmetic.
 Use the four operations with whole
- numbers to solve problems.

Grade 5 Target Performance



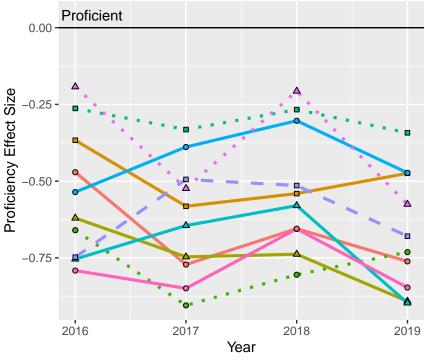
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DRAFT

- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two–dimensional figures into
- categories based on their properties.
 Convert like measurement units within a given measurement system.
- Graph points on the coordinate plane to solve real–world and mathematical
- to solve real–world and mathematical problems.

 Perform operations with multi–digit
- whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance

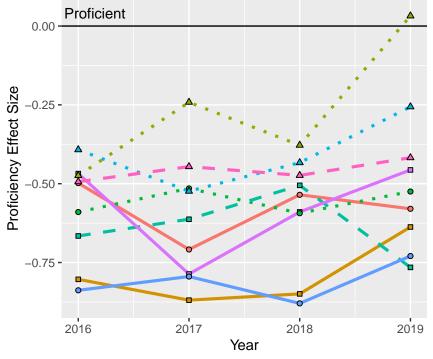


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DRAFT

- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi-digit
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one–variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real—world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance



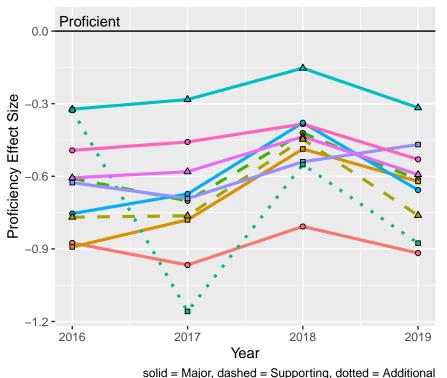
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DRAFT

- Analyze proportional relationships and use them to solve real-world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add,
- subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical problems involving angle measure, area, surface area, and volume.
- Solve real-life and mathematical problems using numerical and algebraic
- expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- about a population.

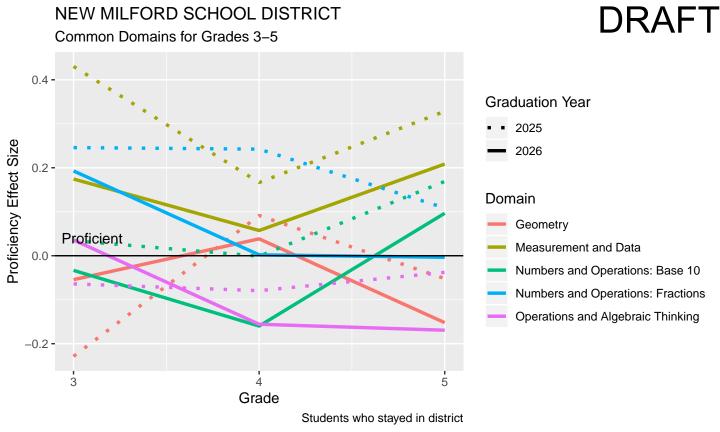
Grade 8 Target Performance

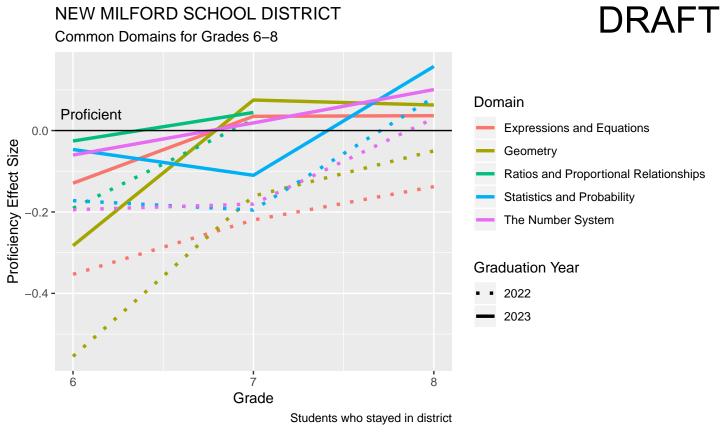




Target

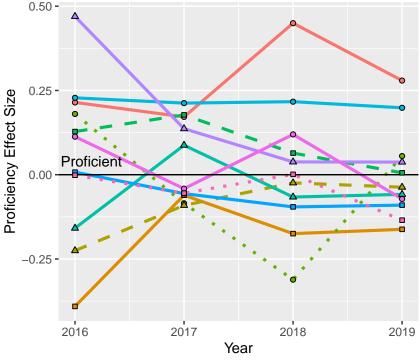
- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real—world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and integer exponents.





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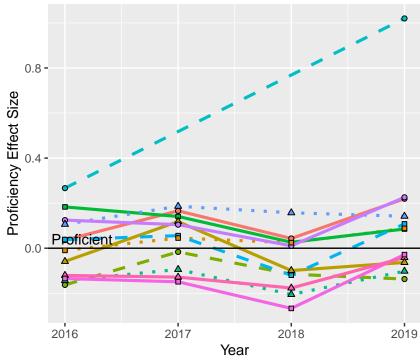




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- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
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- Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi–digit arithmetic.

Grade 4 Target Performance



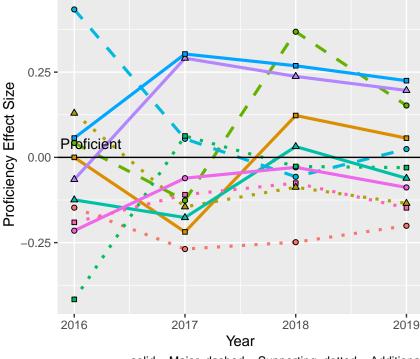
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Target

DRAFT

- Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.
- Draw and identify lines and angles, and classify shapes by properties of their lines and angles.
- Extend understanding of fraction equivalence and ordering. Gain familiarity with factors and multiples.
- Generalize place value understanding for multi-digit whole numbers.
- Generate and analyze patterns.
- Represent and interpret data.
- Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.
- understand concepts of angle and measure angles. Understand decimal notation for
- fractions, and compare decimal fractions.
- Use place value understanding and properties of operations to perform multi-digit arithmetic.
 Use the four operations with whole
- numbers to solve problems.

Grade 5 Target Performance



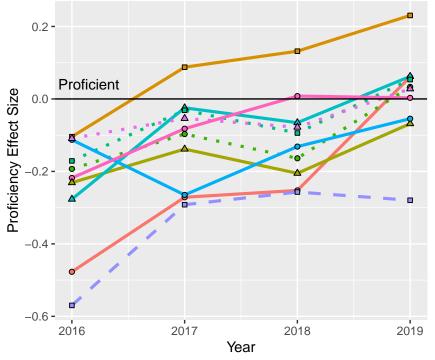
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- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two-dimensional figures into
- categories based on their properties.
 Convert like measurement units within a given measurement system.
- Graph points on the coordinate plane to solve real-world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

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Grade 6 Target Performance

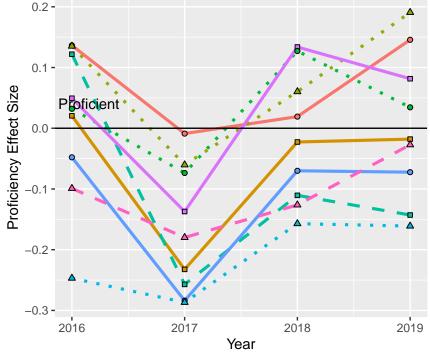


Target

- Apply and extend previous understandings of arithmetic to algebraic expressions.
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- numbers.
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- relationships between dependent and independent variables.
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- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

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Grade 7 Target Performance



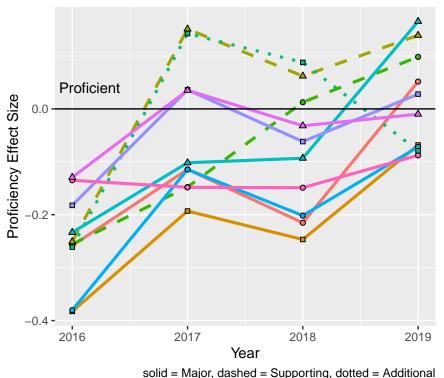
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- Analyze proportional relationships and use them to solve real–world and mathematical problems.
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- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical problems involving angle measure, area,
- surface area, and volume.
 Solve real-life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- Use random sampling to draw inferences about a population.

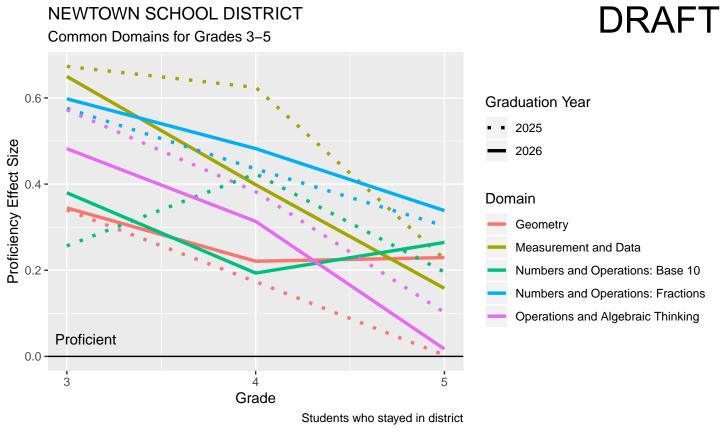
Grade 8 Target Performance

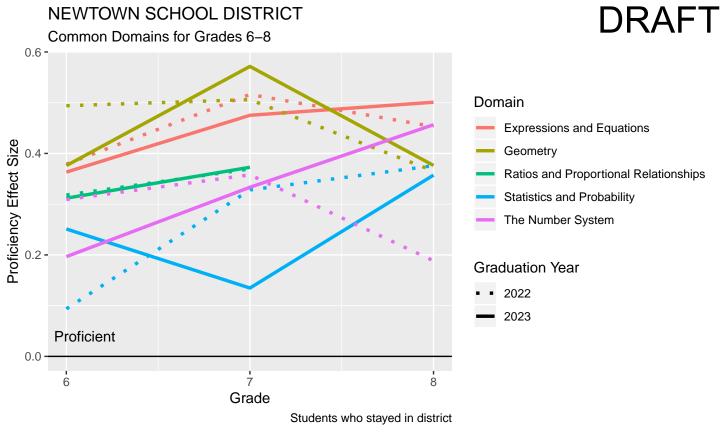




Target

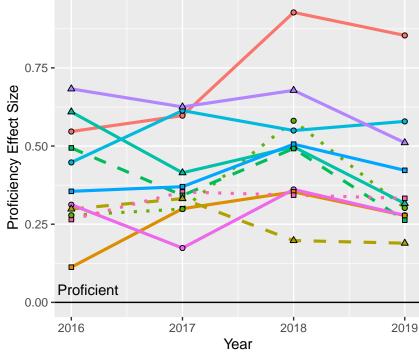
- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real–world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and integer exponents.





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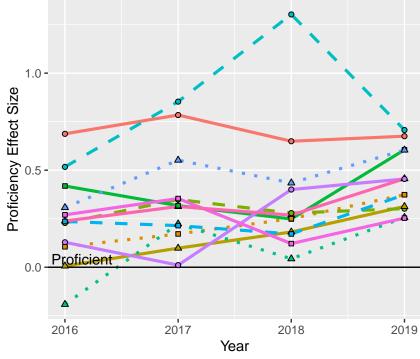




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- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
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- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
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 Solve problems involving the four operations, and identify and explain patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi–digit arithmetic.

Grade 4 Target Performance



solid = Major, dashed = Supporting, dotted = Additional

Target

DRAFT

Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.

Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

Extend understanding of fraction equivalence and ordering. Gain familiarity with factors and

multiples.

Generalize place value understanding for multi-digit whole numbers.

Generate and analyze patterns.

Represent and interpret data.

Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

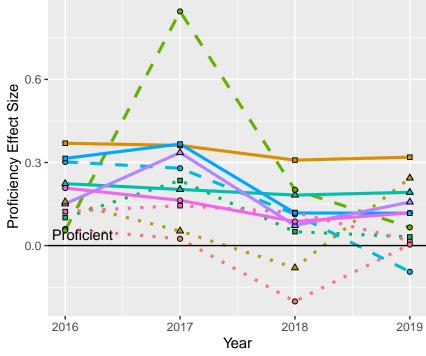
understand concepts of angle and measure angles. Understand decimal notation for

fractions, and compare decimal fractions.

Use place value understanding and properties of operations to perform multi-digit arithmetic.
Use the four operations with whole

numbers to solve problems.

Grade 5 Target Performance

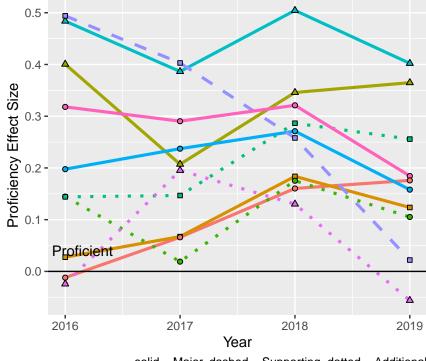


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- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two-dimensional figures into
- categories based on their properties.
 Convert like measurement units within a given measurement system.
- Graph points on the coordinate plane to solve real-world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance

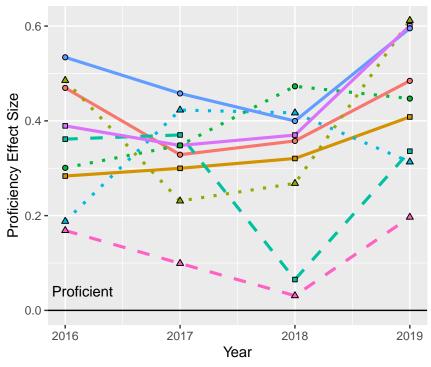


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- Apply and extend previous understandings of arithmetic to algebraic expressions. Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers. Compute fluently with multi-digit
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one-variable equations and inequalities. Represent and analyze quantitative
- relationships between dependent and independent variables. Solve real-world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance



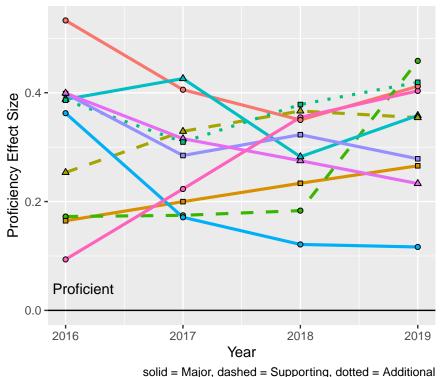
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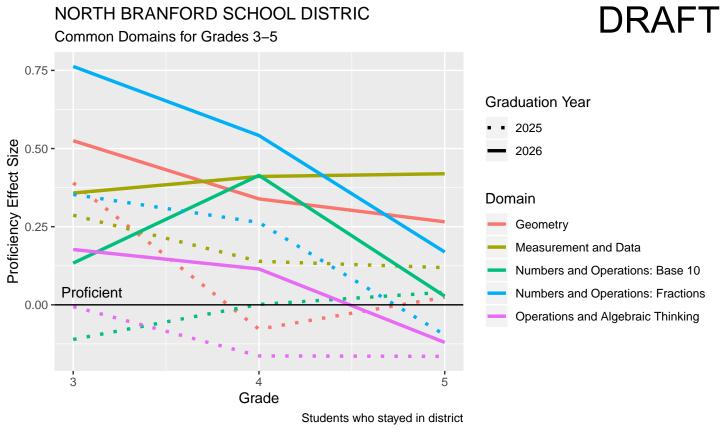
- Analyze proportional relationships and use them to solve real-world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational
- numbers. Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability
- models. Solve real-life and mathematical
- problems involving angle measure, area, surface area, and volume. Solve real-life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- about a population.

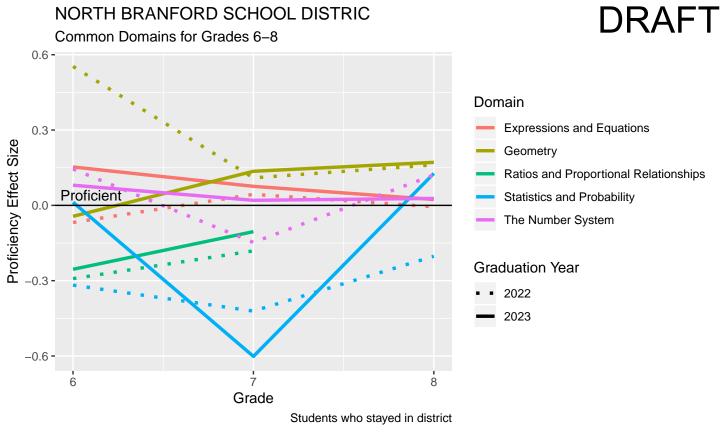
Grade 8 Target Performance





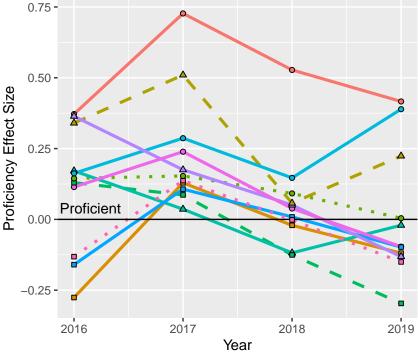
- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real-world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and integer exponents.





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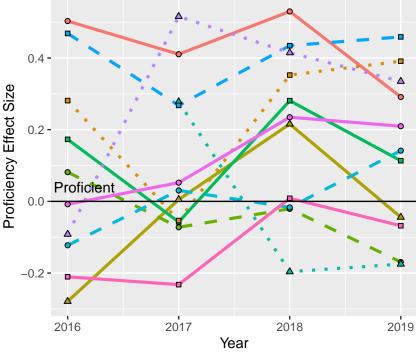


solid = Major, dashed = Supporting, dotted = Additional

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
 - estimation of intervals of time, liquid
- volumes, and masses of objects. Solve problems involving the four operations, and identify and explain
- patterns in arithmetic. Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi-digit arithmetic.

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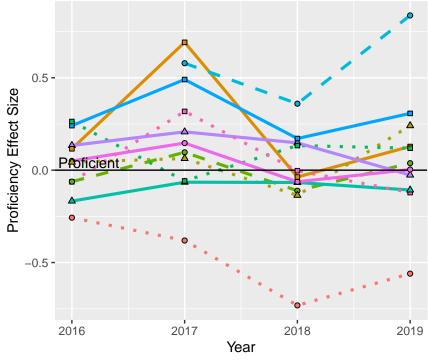


solid = Major, dashed = Supporting, dotted = Additional

- Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.
- Draw and identify lines and angles, and classify shapes by properties of their lines and angles.
- Extend understanding of fraction equivalence and ordering.
 Gain familiarity with factors and
- multiples.
 Generalize place value understanding for multi-digit whole numbers.
- Generate and analyze patterns.
 - Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.
- understand concepts of angle and measure angles.
- Understand decimal notation for fractions, and compare decimal fractions.
- Use place value understanding and properties of operations to perform multi-digit arithmetic.
- Use the four operations with whole numbers to solve problems.

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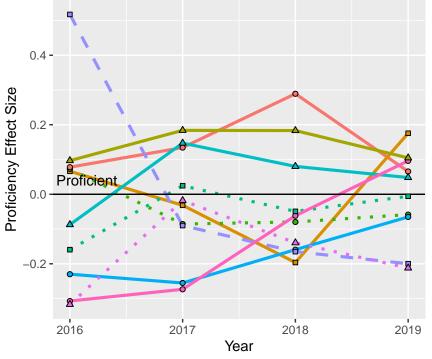




solid = Major, dashed = Supporting, dotted = Additional

- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two–dimensional figures into
- categories based on their properties.
 Convert like measurement units within a
- given measurement system.
 Graph points on the coordinate plane
- to solve real–world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance

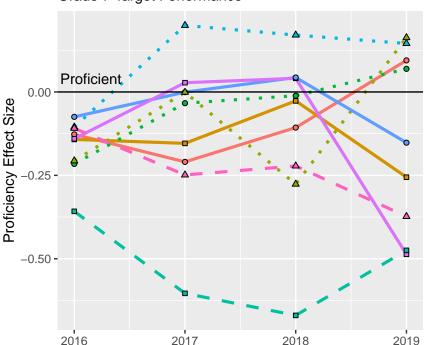


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- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi–digit
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one–variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real–world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance



solid = Major, dashed = Supporting, dotted = Additional

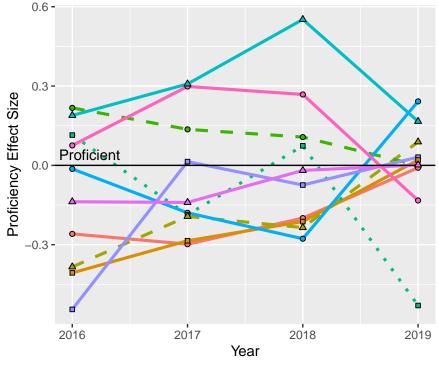
Year

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- Analyze proportional relationships and use them to solve real–world and mathematical problems.
 - Apply and extend previous understandings of operations with fractions to add,
- of operations with fractions to add, subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
 - Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical
- problems involving angle measure, area, surface area, and volume.
 Solve real-life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- Use random sampling to draw inference about a population.

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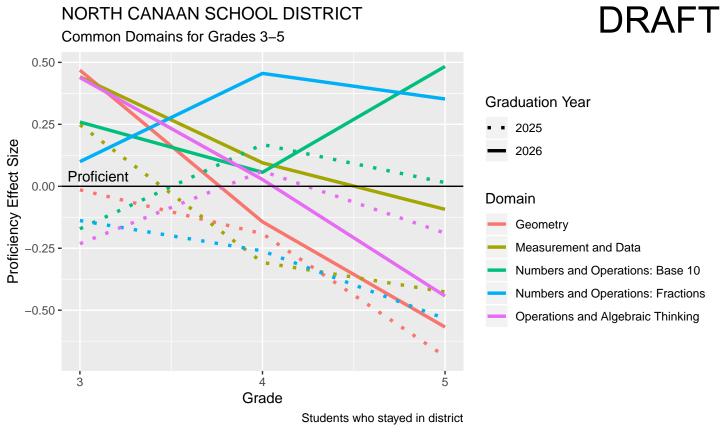
Grade 8 Target Performance

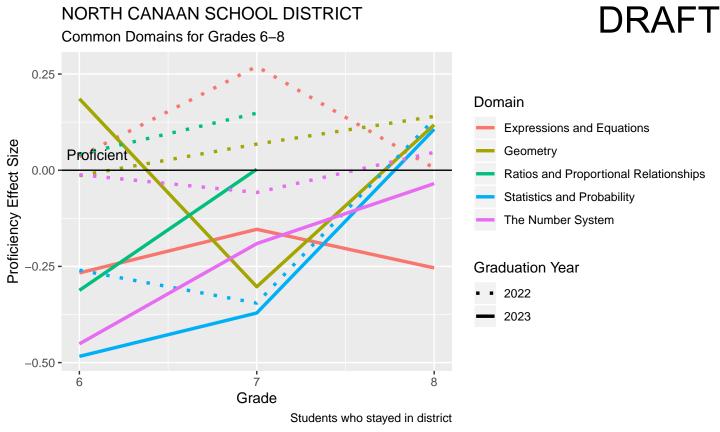


Target

- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real—world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and integer exponents.

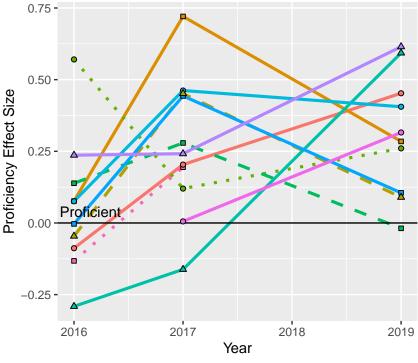
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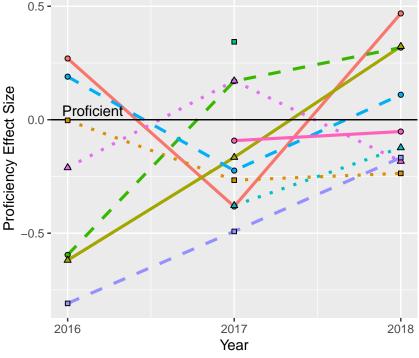


solid = Major, dashed = Supporting, dotted = Additional

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
- Solve problems involving measurement and
 estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four
- operations, and identify and explain patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi–digit arithmetic.

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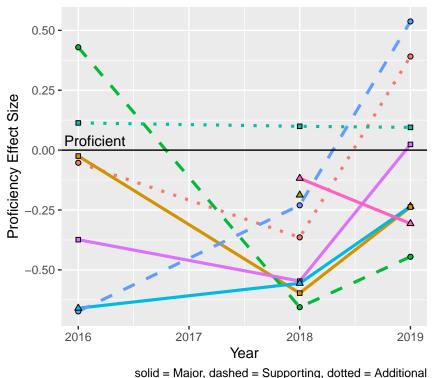


solid = Major, dashed = Supporting, dotted = Additional

- Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.
- Draw and identify lines and angles, and classify shapes by properties of their lines and angles.
- Extend understanding of fraction
- equivalence and ordering. Generalize place value understanding for multi-digit whole numbers.
- Generate and analyze patterns.
- Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.
- understand concepts of angle and measure angles.
- Understand decimal notation for fractions, and compare decimal fractions.
 - Use place value understanding and properties of operations to perform multi-digit arithmetic.
 Use the four operations with whole
- numbers to solve problems.

Grade 5 Target Performance





Target

 Apply and extend previous understandings of multiplication and division to multiply and divide fractions.

Classify two–dimensional figures into categories based on their properties.

Convert like measurement units within a given measurement system.

Graph points on the coordinate plane

to solve real–world and mathematical problems.

Perform operations with multi-digit whole numbers and with decimals to hundredths.

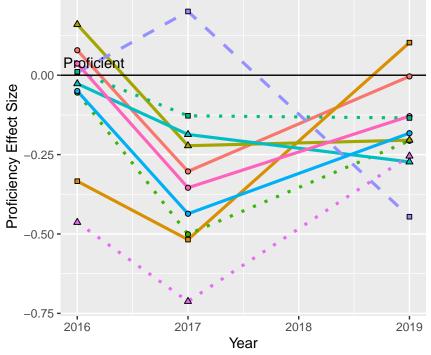
 Understand concepts of volume and relate volume to multiplication and to addition.

Understand the place value system.

Use equivalent fractions as a strategy to add and subtract fractions.

Write and interpret numerical expressions.





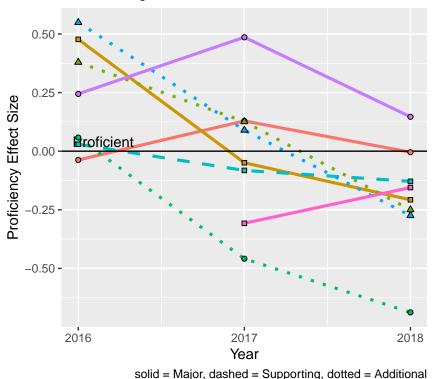
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- Apply and extend previous understandings of arithmetic to algebraic expressions. Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers. Compute fluently with multi-digit numbers and find common factors and
- multiples. Develop understanding of statistical
- variability. Reason about and solve one-variable
- equations and inequalities. Represent and analyze quantitative
- relationships between dependent and independent variables. Solve real-world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance

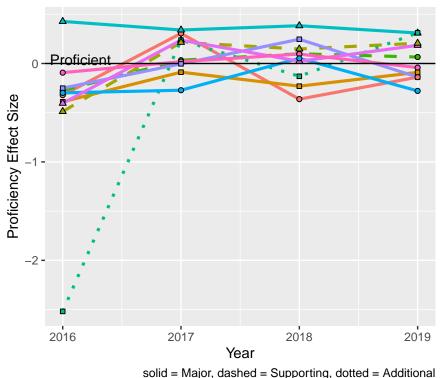




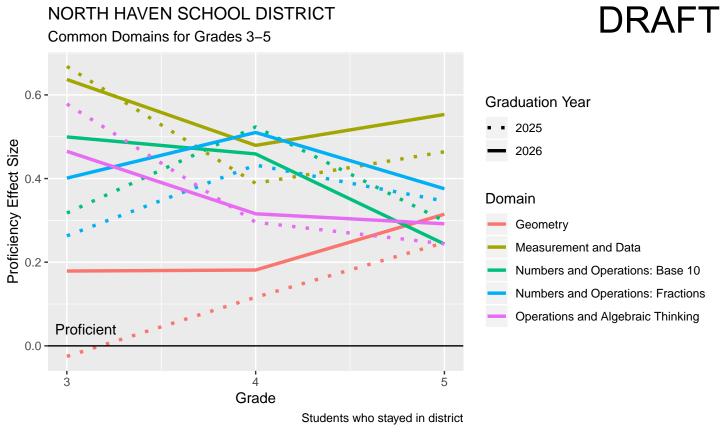
- Analyze proportional relationships and use them to solve real–world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.
- Draw, construct and describe geometrical figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical problems involving angle measure, area, surface area, and volume.
- Solve real–life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- Use random sampling to draw inference about a population.

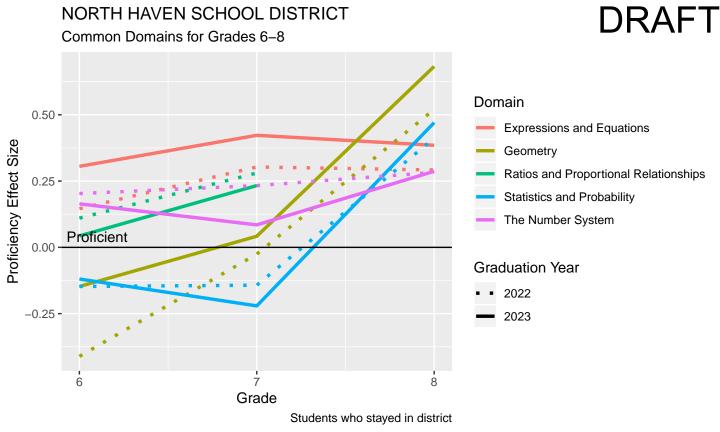
Grade 8 Target Performance



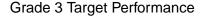


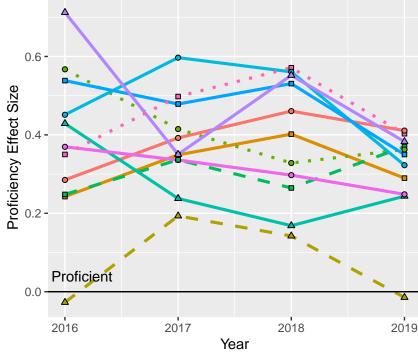
- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real-world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and integer exponents.





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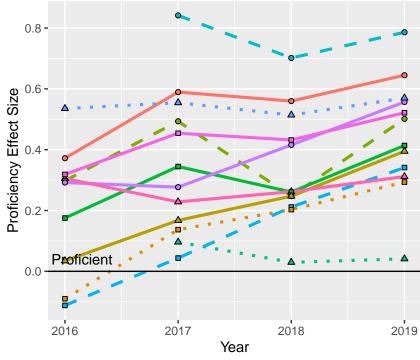




solid = Major, dashed = Supporting, dotted = Additional

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
- Solve problems involving measurement and
 estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four
 operations, and identify and explain
- patterns in arithmetic.
 Understand concepts of area and relate area to multiplication and to addition.
 Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi–digit arithmetic.

Grade 4 Target Performance



solid = Major, dashed = Supporting, dotted = Additional

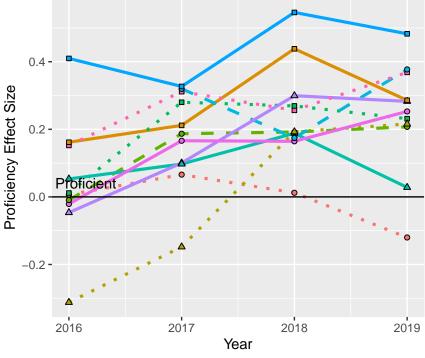
Target

DRAFT

- Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.
- Draw and identify lines and angles, and classify shapes by properties of their lines and angles.
- Extend understanding of fraction equivalence and ordering. Gain familiarity with factors and multiples.
- Generalize place value understanding for multi-digit whole numbers.
- Generate and analyze patterns.
- Represent and interpret data.
- Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.
- understand concepts of angle and measure angles. Understand decimal notation for
- fractions, and compare decimal fractions.
- Use place value understanding and properties of operations to perform multi-digit arithmetic.
 Use the four operations with whole
- numbers to solve problems.

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Grade 5 Target Performance

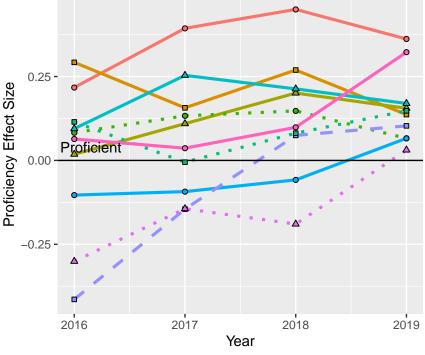


solid = Major, dashed = Supporting, dotted = Additional

- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.

 Classify two–dimensional figures into
- categories based on their properties.
 Convert like measurement units within a
- given measurement system.
 Graph points on the coordinate plane
- to solve real–world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance



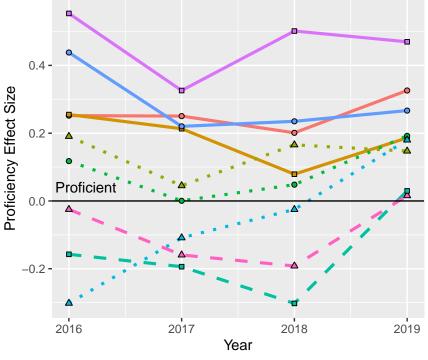
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Target

- Apply and extend previous understandings of arithmetic to algebraic expressions. Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi–digit
 numbers and find common factors and
 multiples.
- Develop understanding of statistical variability.
- Reason about and solve one-variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real—world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

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Grade 7 Target Performance



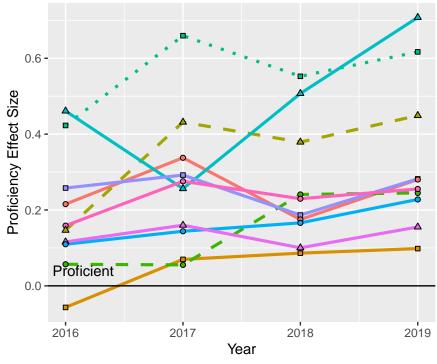
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DRAFT

- Analyze proportional relationships and use them to solve real-world and mathematical problems.
 - Apply and extend previous understandings of operations with fractions to add,
- subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical problems involving angle measure, area, surface area, and volume.
- Solve real-life and mathematical problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- about a population.

Grade 8 Target Performance

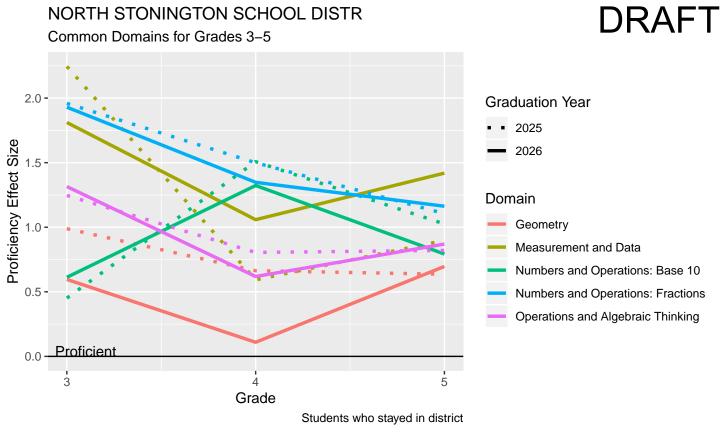


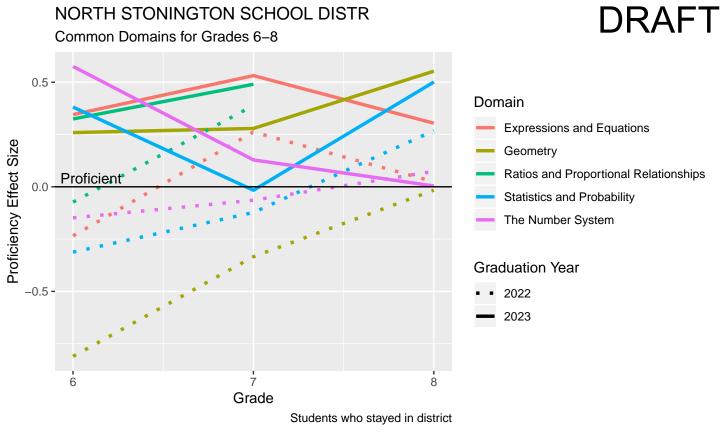


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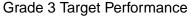
- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
 - Solve real—world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and intege exponents.

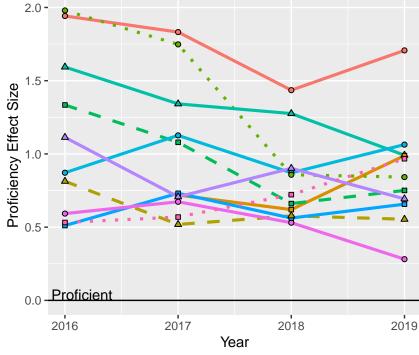
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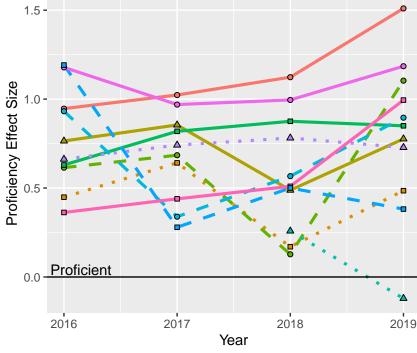




solid = Major, dashed = Supporting, dotted = Additional

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
 - estimation of intervals of time, liquid
- volumes, and masses of objects. Solve problems involving the four operations, and identify and explain
- patterns in arithmetic. Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi-digit arithmetic.

Grade 4 Target Performance



solid = Major, dashed = Supporting, dotted = Additional

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Target

Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.

Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

Extend understanding of fraction equivalence and ordering. Gain familiarity with factors and

multiples. Generalize place value understanding for multi-digit whole numbers.

Generate and analyze patterns.

Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

understand concepts of angle and measure angles.

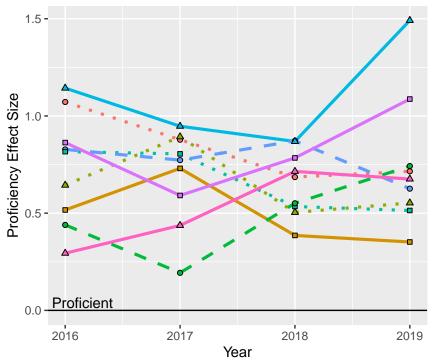
Understand decimal notation for fractions, and compare decimal fractions. Use place value understanding and

properties of operations to perform multi-digit arithmetic. Use the four operations with whole

numbers to solve problems.

Grade 5 Target Performance

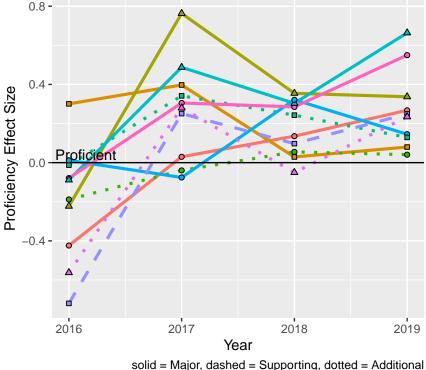




solid = Major, dashed = Supporting, dotted = Additional

- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two-dimensional figures into
- categories based on their properties.
 Convert like measurement units within a given measurement system.
 Graph points on the coordinate plane
- to solve real–world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance



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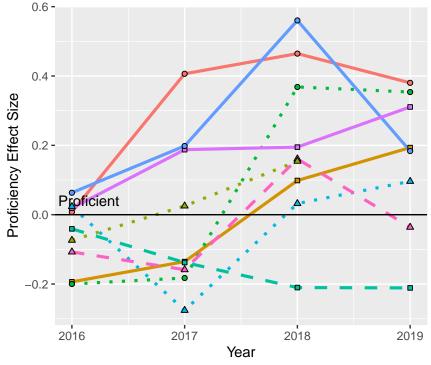
Target

numbers.

- Apply and extend previous understandings of arithmetic to algebraic expressions. Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- Compute fluently with multi-digit numbers and find common factors and
- multiples. Develop understanding of statistical variability.
- Reason about and solve one-variable equations and inequalities. Represent and analyze quantitative
- relationships between dependent and independent variables. Solve real-world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

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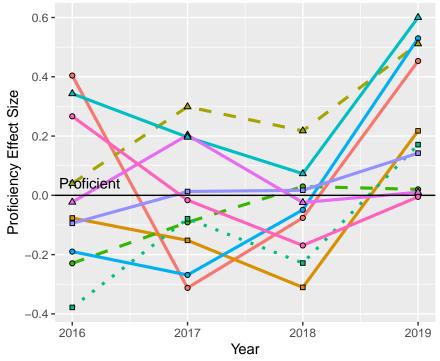


solid = Major, dashed = Supporting, dotted = Additional

- Analyze proportional relationships and use them to solve real-world and mathematical problems.
 - Apply and extend previous understandings of operations with fractions to add,
- subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical
- problems involving angle measure, area, surface area, and volume. Solve real-life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- about a population.

Grade 8 Target Performance



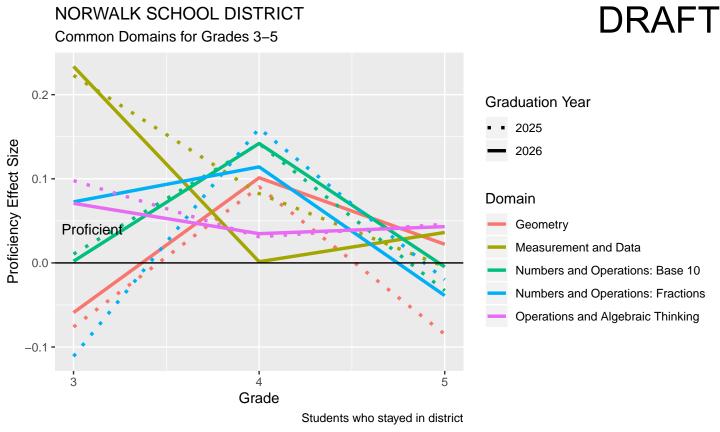


Target

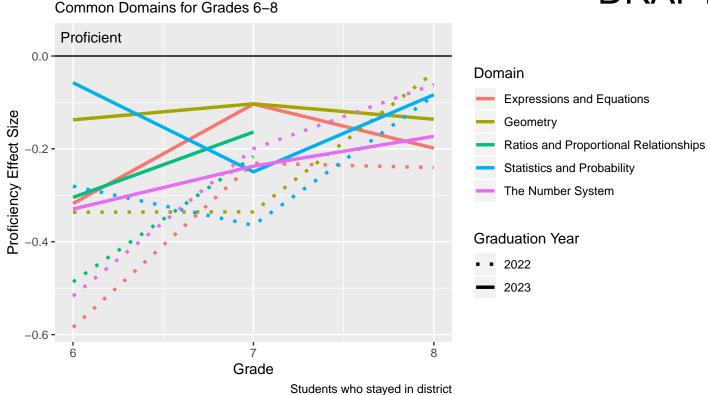
- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in
- bivariate data.

 Know that there are numbers that are
- not rational, and approximate them by rational numbers.
- Solve real—world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and integer exponents.

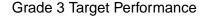
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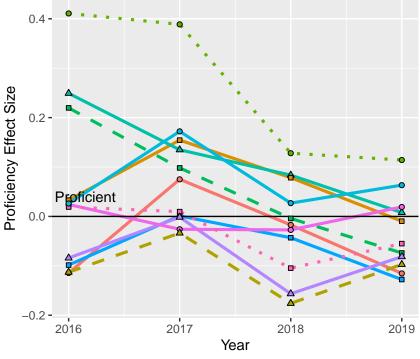


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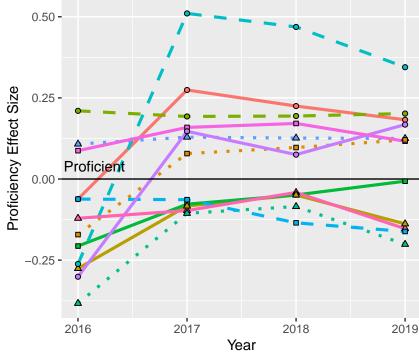




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- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division.
- Solve problems involving measurement and estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four
- operations, and identify and explain patterns in arithmetic.
 Understand concepts of area and relate
- area to multiplication and to addition.
 Understand properties of multiplication
- and the relationship between multiplication and division.
 Use place value understanding and
- properties of arithmetic to perform multi-digit arithmetic.

Grade 4 Target Performance



solid = Major, dashed = Supporting, dotted = Additional

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Target

Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.

Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

Extend understanding of fraction equivalence and ordering. Gain familiarity with factors and

multiples.

Generalize place value understanding for multi-digit whole numbers.

Generate and analyze patterns.

Represent and interpret data.

Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

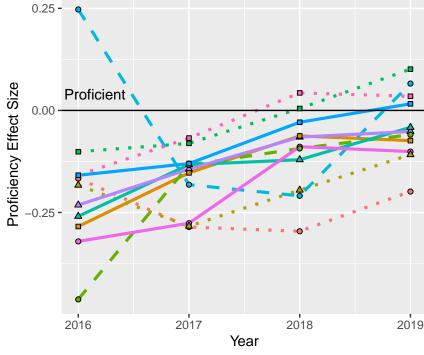
understand concepts of angle and measure angles. Understand decimal notation for

fractions, and compare decimal fractions.

Use place value understanding and properties of operations to perform multi-digit arithmetic.
Use the four operations with whole

numbers to solve problems.

Grade 5 Target Performance

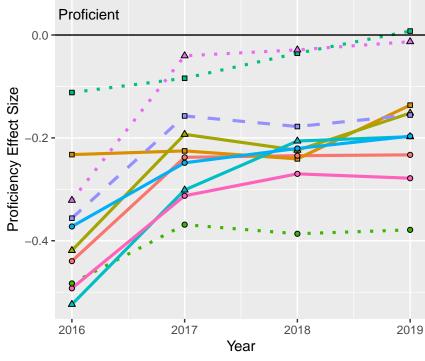


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- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two-dimensional figures into
- categories based on their properties.
 Convert like measurement units within a given measurement system.
- Graph points on the coordinate plane to solve real-world and mathematical
- to solve real—world and mathematical problems.
 Perform operations with multi-digit
- whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance



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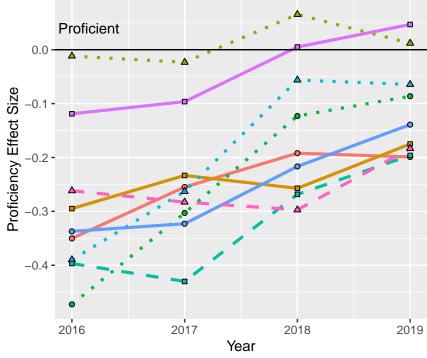
Target

numbers.

- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- Compute fluently with multi-digit numbers and find common factors and
- multiples.

 Develop understanding of statistical
- variability.
 Reason about and solve one–variable equations and inequalities.
 Represent and analyze quantitative
- Represent and analyze quantitative relationships between dependent and
- independent variables.
 Solve real–world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance



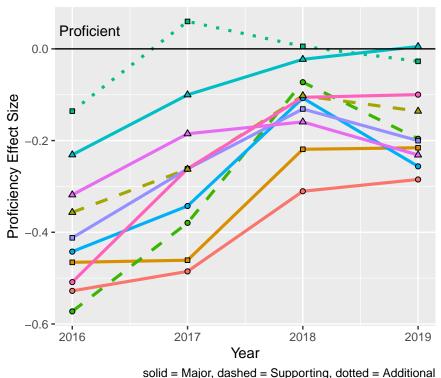
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- Analyze proportional relationships and use them to solve real-world and mathematical problems.
- Apply and extend previous understandings
- of operations with fractions to add, subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations. Draw, construct and describe geometrical
- figures and describe the relationships between them.
 - Investigate chance processes and develop, use, and evaluate probability models.
 - Solve real-life and mathematical problems involving angle measure, area,
- surface area, and volume. Solve real-life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- about a population.

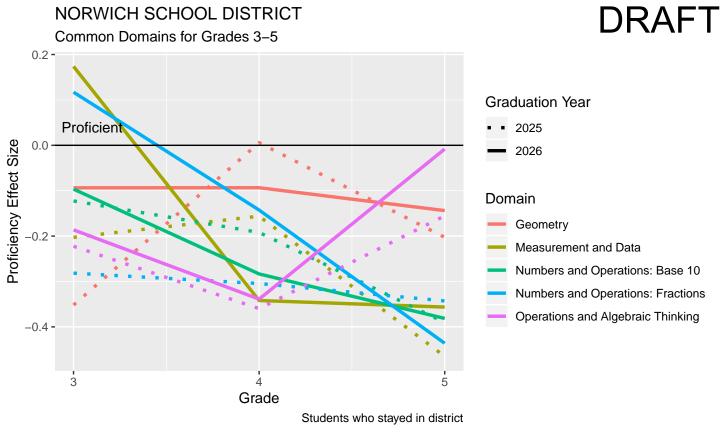
Grade 8 Target Performance





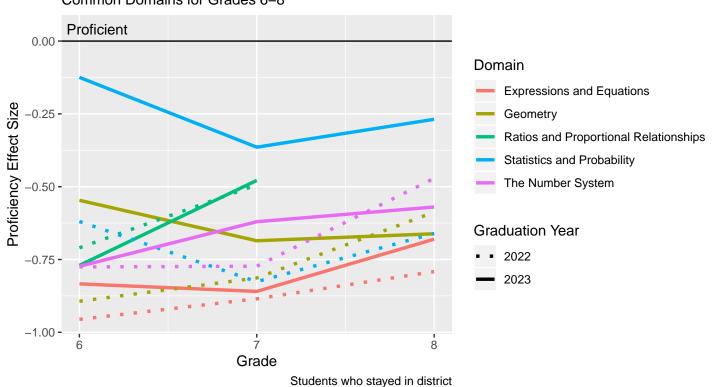
Target

- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
 - Solve real-world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and integer exponents.



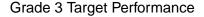
NORWICH SCHOOL DISTRICT Common Domains for Grades 6–8

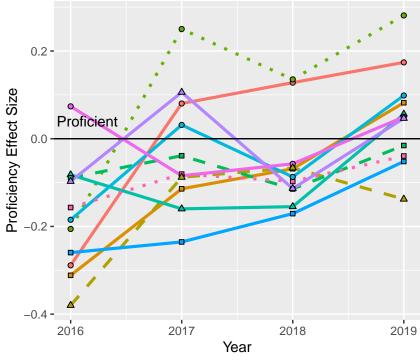




NORWICH SCHOOL DISTRICT

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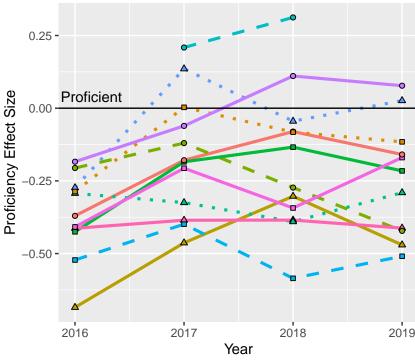


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- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
- estimation of intervals of time, liquid
- volumes, and masses of objects. Solve problems involving the four operations, and identify and explain
- patterns in arithmetic. Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi-digit arithmetic.

NORWICH SCHOOL DISTRICT

Grade 4 Target Performance

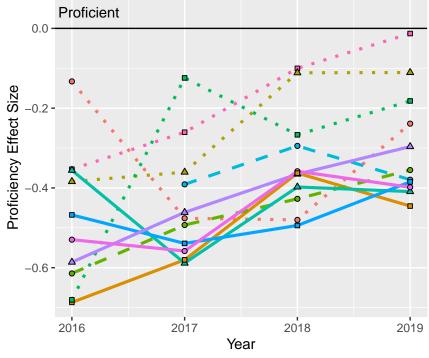


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- Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.
- Draw and identify lines and angles, and classify shapes by properties of their lines and angles.
- Extend understanding of fraction equivalence and ordering. Gain familiarity with factors and multiples.
- Generalize place value understanding for multi-digit whole numbers.
- Generate and analyze patterns.
- Represent and interpret data.
- Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.
- understand concepts of angle and measure angles. Understand decimal notation for
- fractions, and compare decimal fractions.
- Use place value understanding and properties of operations to perform multi-digit arithmetic.
 Use the four operations with whole
- numbers to solve problems.

Grade 5 Target Performance



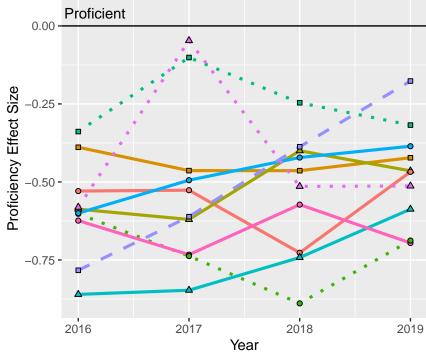
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DRAFT

- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two–dimensional figures into
- categories based on their properties.
 Convert like measurement units within a
- given measurement system.

 Graph points on the coordinate plane
- to solve real–world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance

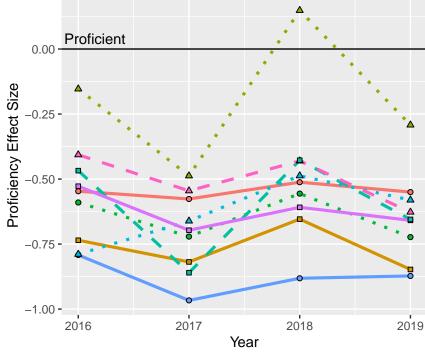


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DRAFT

- Apply and extend previous understandings of arithmetic to algebraic expressions. Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi-digit
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one-variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real–world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance

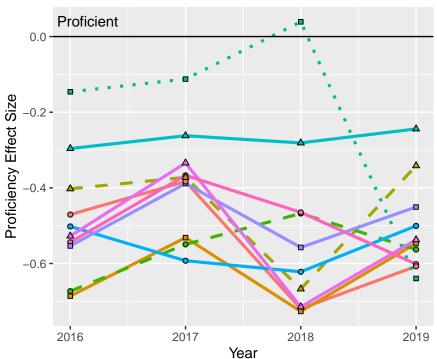


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- Analyze proportional relationships and use them to solve real-world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add,
- subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical
- problems involving angle measure, area, surface area, and volume. Solve real-life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- about a population.

Grade 8 Target Performance

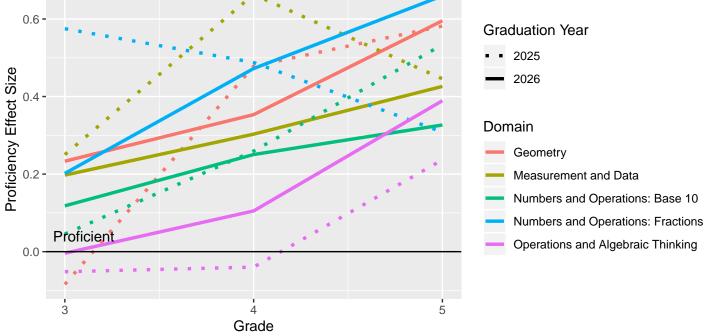


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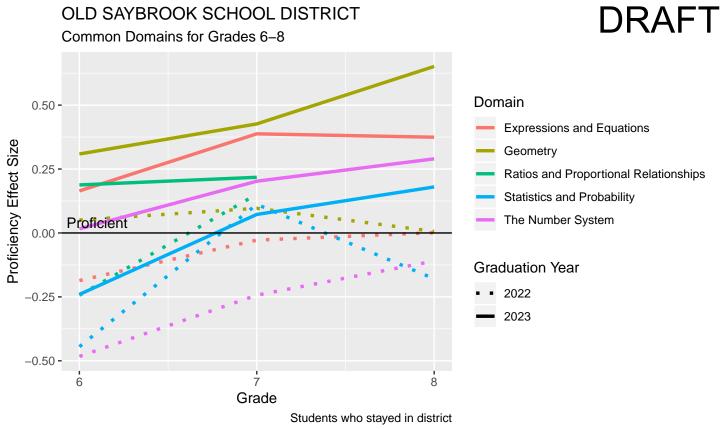
Target

- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real—world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and integer exponents.

OLD SAYBROOK SCHOOL DISTRICT Common Domains for Grades 3–5 Graduation Year 2025



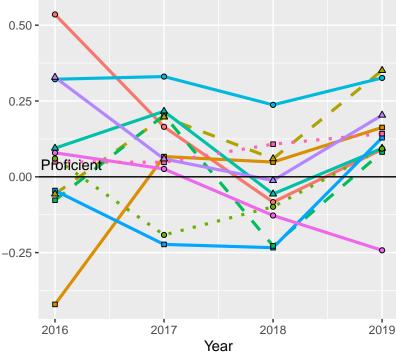
Students who stayed in district



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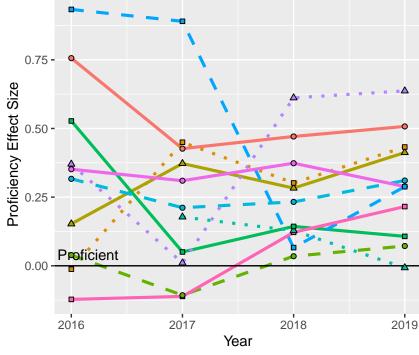
Proficiency Effect Size



Target

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
- estimation of intervals of time, liquid
- volumes, and masses of objects. Solve problems involving the four
- operations, and identify and explain patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi-digit arithmetic.

Grade 4 Target Performance



solid = Major, dashed = Supporting, dotted = Additional

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Target

Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.

 Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

Extend understanding of fraction equivalence and ordering.
Gain familiarity with factors and

multiples.

Generalize place value understanding for

multi-digit whole numbers.

Generate and analyze patterns.

Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

understand concepts of angle and measure angles.

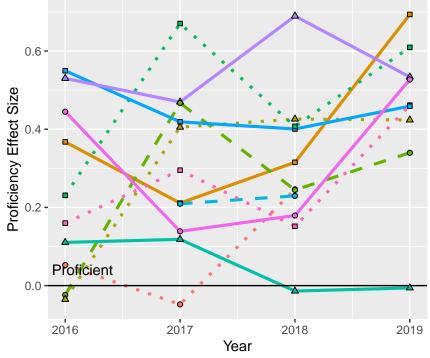
Understand decimal notation for fractions, and compare decimal fractions.

 Use place value understanding and properties of operations to perform multi-digit arithmetic.

Use the four operations with whole numbers to solve problems.

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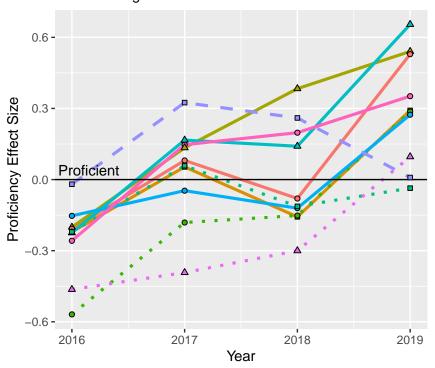




solid = Major, dashed = Supporting, dotted = Additional

- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two–dimensional figures into
- categories based on their properties.
 Convert like measurement units within a
- given measurement system.
 Graph points on the coordinate plane
- to solve real-world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

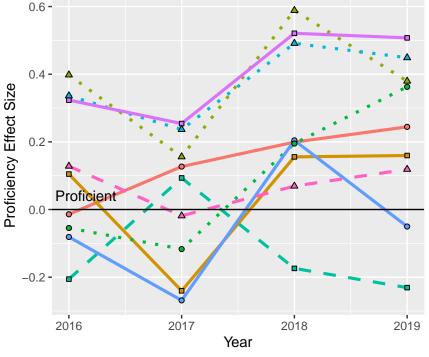
DRAFT Grade 6 Target Performance



Target

- Apply and extend previous understandings of arithmetic to algebraic expressions. Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers. Compute fluently with multi-digit numbers and find common factors and
- multiples. Develop understanding of statistical
- variability. Reason about and solve one-variable equations and inequalities. Represent and analyze quantitative
- relationships between dependent and independent variables.
- Solve real-world and mathematical problems involving area, surface area,
- and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

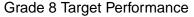
Grade 7 Target Performance

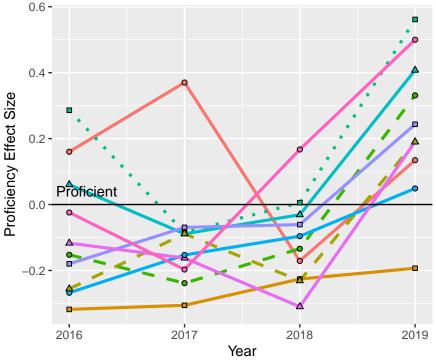


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- Analyze proportional relationships and use them to solve real–world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add,
- subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- • figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real–life and mathematical problems involving angle measure, area, surface area, and volume.
- Solve real-life and mathematical problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- Use random sampling to draw inferences about a population.

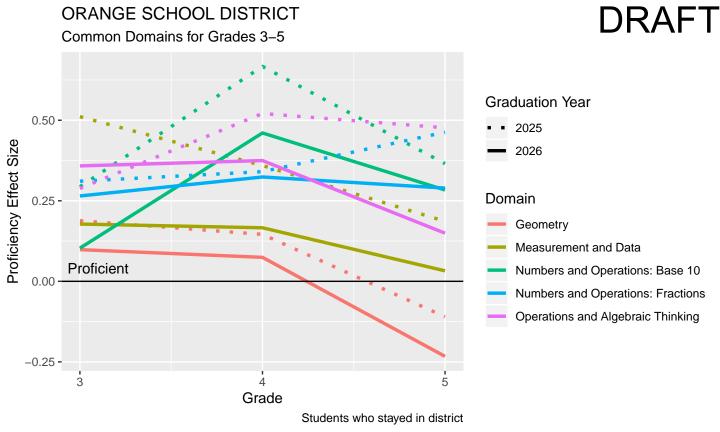




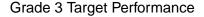
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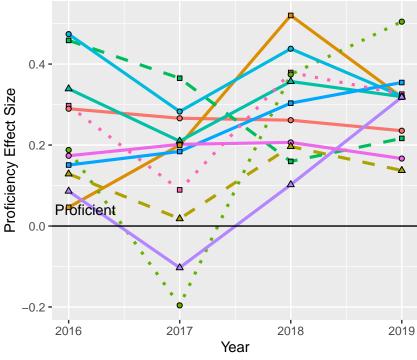
DRAFT

- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions: Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real-world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities. Work with radicals and integer
- exponents.



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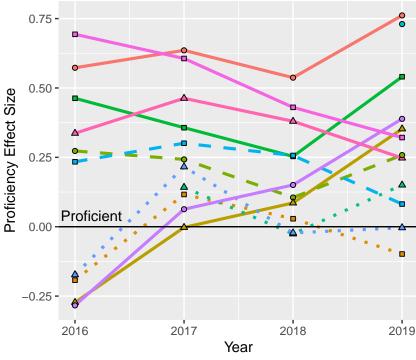




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- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
 - estimation of intervals of time, liquid
- volumes, and masses of objects. Solve problems involving the four operations, and identify and explain
- patterns in arithmetic. Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi-digit arithmetic.

Grade 4 Target Performance



solid = Major, dashed = Supporting, dotted = Additional

Target

DRAFT

Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.

Draw and identify lines and angles, and classify shapes by properties of their

lines and angles. Extend understanding of fraction

equivalence and ordering. Gain familiarity with factors and multiples.

Generalize place value understanding for multi-digit whole numbers.

Generate and analyze patterns.

Represent and interpret data.

Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

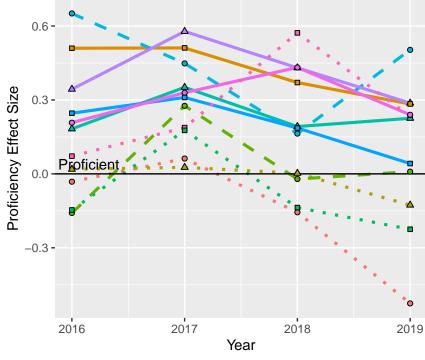
understand concepts of angle and measure angles. Understand decimal notation for

fractions, and compare decimal fractions. Use place value understanding and

properties of operations to perform multi-digit arithmetic.
Use the four operations with whole

numbers to solve problems.

Grade 5 Target Performance



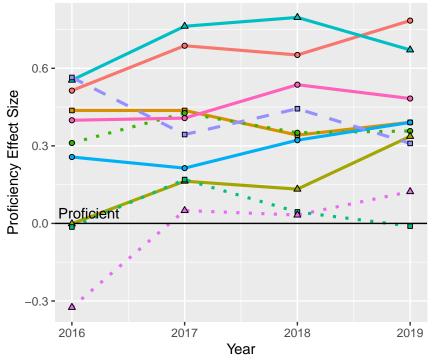
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- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two-dimensional figures into
- categories based on their properties.
 Convert like measurement units within a given measurement system.
- Graph points on the coordinate plane to solve real—world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

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Grade 6 Target Performance



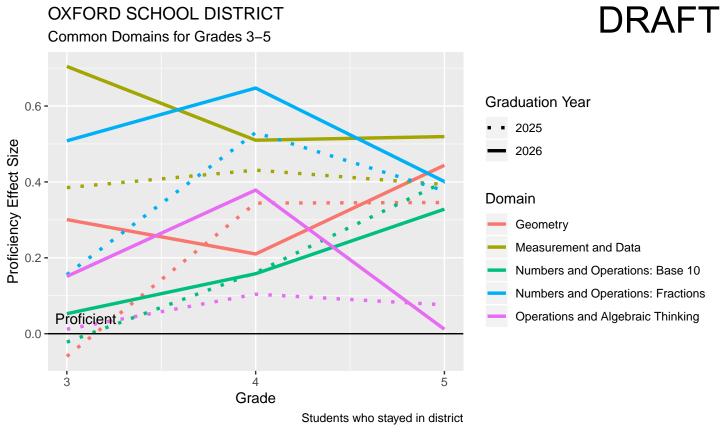
Target

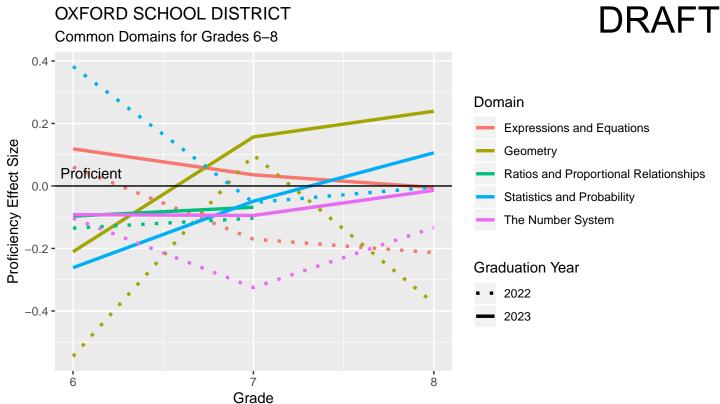
numbers.

- Apply and extend previous understandings of arithmetic to algebraic expressions.

 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- Compute fluently with multi-digit numbers and find common factors and
- multiples.

 Develop understanding of statistical variability.
- Reason about and solve one–variable equations and inequalities. Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real—world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

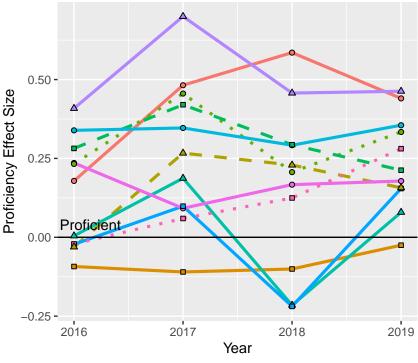




Students who stayed in district

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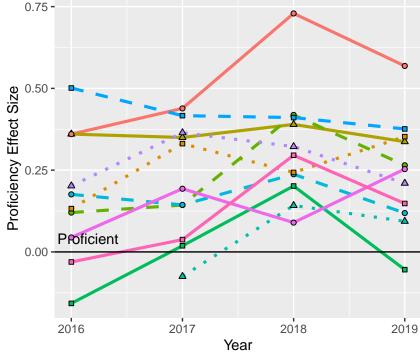




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- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
- Solve problems involving measurement and estimation of intervals of time, liquid
- volumes, and masses of objects.
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- operations, and identify and explain patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
 Use place value understanding and
- properties of arithmetic to perform multi–digit arithmetic.

Grade 4 Target Performance



solid = Major, dashed = Supporting, dotted = Additional

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Target

Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.

 Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

Extend understanding of fraction equivalence and ordering.
Gain familiarity with factors and

multiples.
Generalize place value understanding for multi–digit whole numbers.

Generate and analyze patterns.

Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

understand concepts of angle and measure angles.

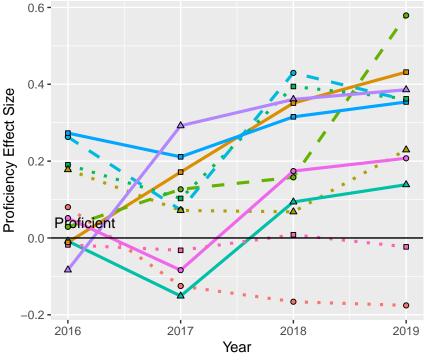
Understand decimal notation for fractions, and compare decimal fractions.

Use place value understanding and properties of operations to perform multi-digit arithmetic.
 Use the four operations with whole

Use the four operations with who numbers to solve problems.

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Grade 5 Target Performance

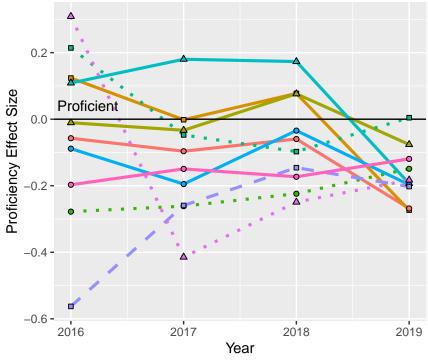


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- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
- Classify two-dimensional figures into categories based on their properties. Convert like measurement units within a
- given measurement system.

 Graph points on the coordinate plane
- to solve real–world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance



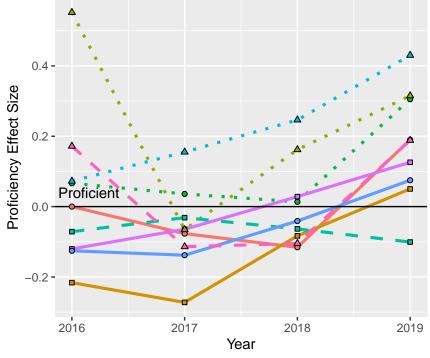
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- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi-digit
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one-variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real–world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

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Grade 7 Target Performance

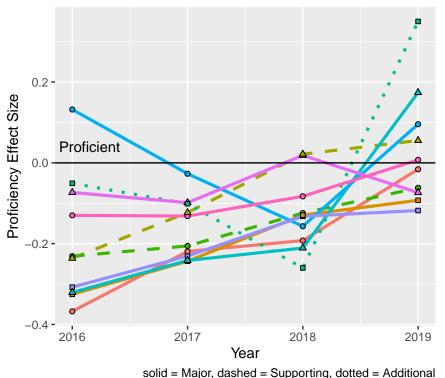


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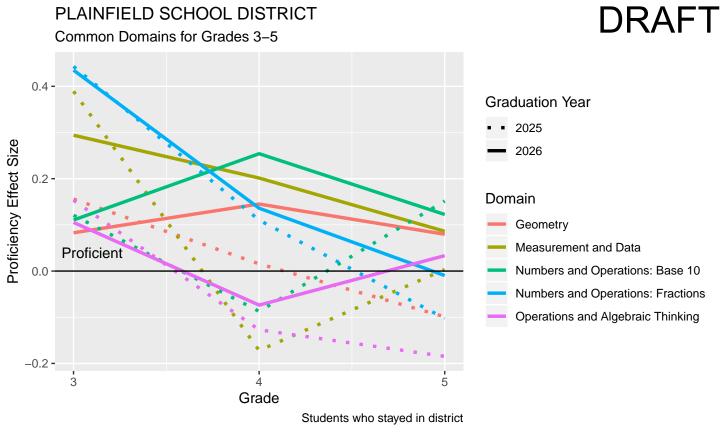
- Analyze proportional relationships and use them to solve real-world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add,
- subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical problems involving angle measure, area, surface area, and volume.
- Solve real-life and mathematical problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- about a population.

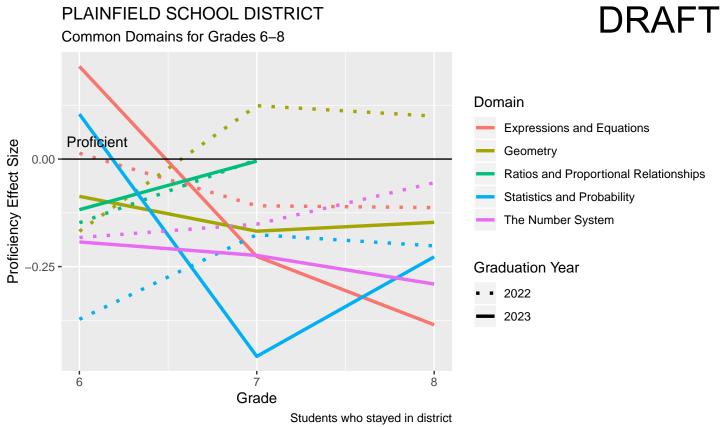
Grade 8 Target Performance



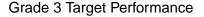


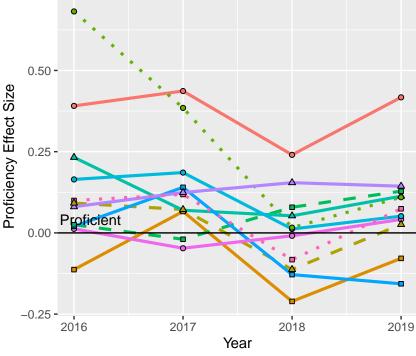
- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real–world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and integer exponents.





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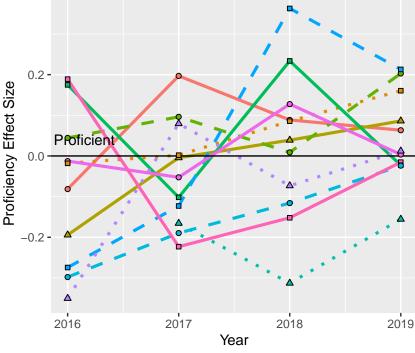




solid = Major, dashed = Supporting, dotted = Additional

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
- estimation of intervals of time, liquid
- volumes, and masses of objects. Solve problems involving the four operations, and identify and explain
- patterns in arithmetic. Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi-digit arithmetic.

Grade 4 Target Performance



solid = Major, dashed = Supporting, dotted = Additional

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Target

Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.

 Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

Extend understanding of fraction equivalence and ordering.
Gain familiarity with factors and

multiples.
Generalize place value understanding for multi–digit whole numbers.

■ Generate and analyze patterns.

 Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

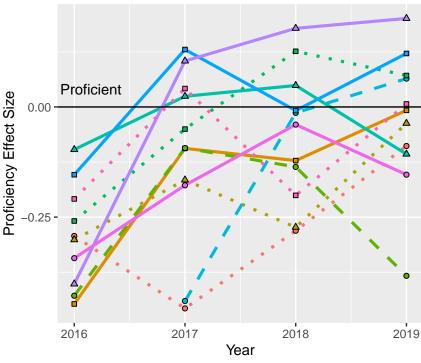
understand concepts of angle and measure angles.

Understand decimal notation for fractions, and compare decimal fractions.

Use place value understanding and properties of operations to perform multi-digit arithmetic.
 Use the four operations with whole

Use the four operations with whol numbers to solve problems.

Grade 5 Target Performance

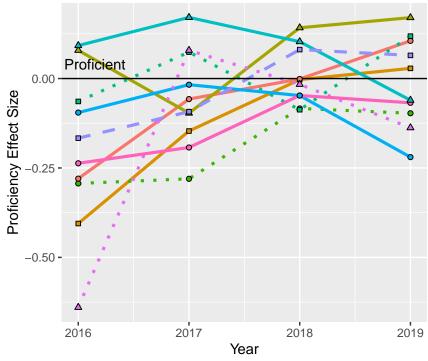


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- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two–dimensional figures into
- categories based on their properties.
 Convert like measurement units within a
- given measurement system.
 Graph points on the coordinate plane
- to solve real–world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance



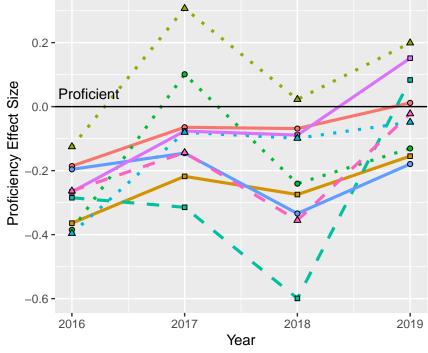
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Target

numbers.

- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- Compute fluently with multi-digit numbers and find common factors and
- multiples.
 Develop understanding of statistical variability.
- Reason about and solve one-variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real–world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance



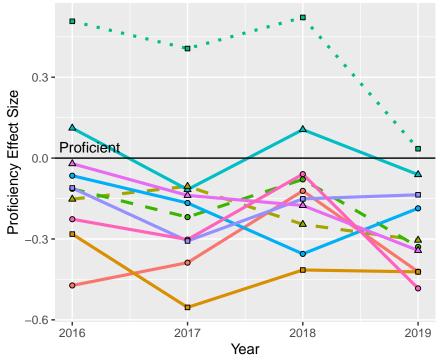
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Target

- Analyze proportional relationships and use them to solve real–world and mathematical problems.
 - Apply and extend previous understandings of operations with fractions to add
- of operations with fractions to add, subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real–life and mathematical problems involving angle measure, area,
- surface area, and volume.
 Solve real-life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- Use random sampling to draw inference about a population.

Grade 8 Target Performance





Target

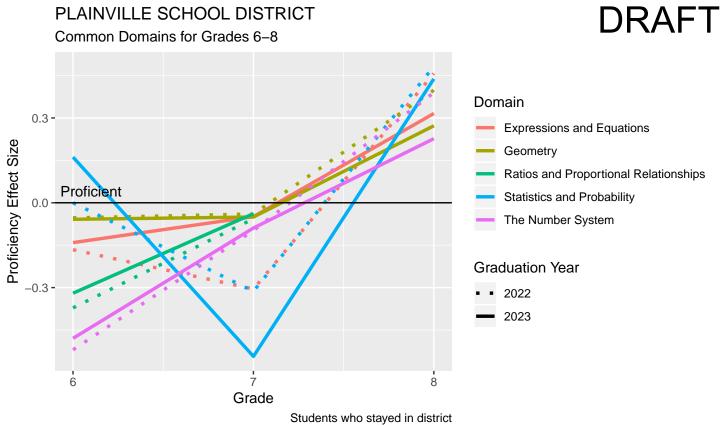
- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
 - Solve real–world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and integer exponents.

DRAFT PLAINVILLE SCHOOL DISTRICT Common Domains for Grades 3-5 0.6 -**Graduation Year** 2025 0.4 -2026 Domain 0.2 -Geometry Measurement and Data Numbers and Operations: Base 10 **Proficient** 0.0 Numbers and Operations: Fractions Operations and Algebraic Thinking -0.2 **-**

Proficiency Effect Size

Students who stayed in district

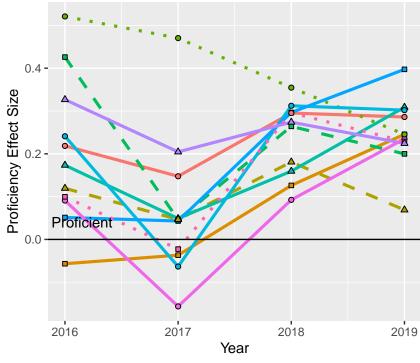
Grade



PLAINVILLE SCHOOL DISTRICT

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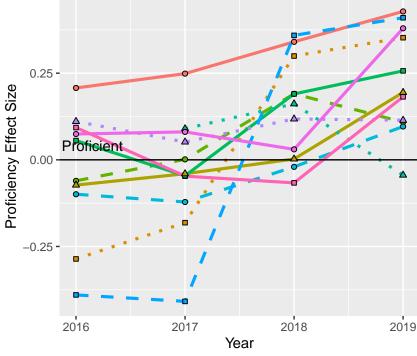


solid = Major, dashed = Supporting, dotted = Additional

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
- Solve problems involving measurement and estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four
- operations, and identify and explain patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition.
 Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi-digit arithmetic.

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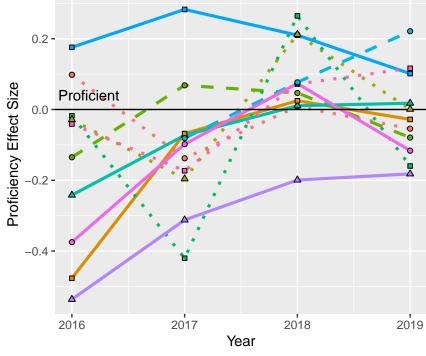




Target

- Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.
- Draw and identify lines and angles, and classify shapes by properties of their lines and angles.
- Extend understanding of fraction equivalence and ordering.
 Gain familiarity with factors and
- multiples.
 Generalize place value understanding for multi-digit whole numbers.
- Generate and analyze patterns.
 - Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.
 - understand concepts of angle and measure angles.
- Understand decimal notation for fractions, and compare decimal fractions.
 Use place value understanding and
- properties of operations to perform multi-digit arithmetic.
 Use the four operations with whole
- Use the four operations with whol numbers to solve problems.

Grade 5 Target Performance



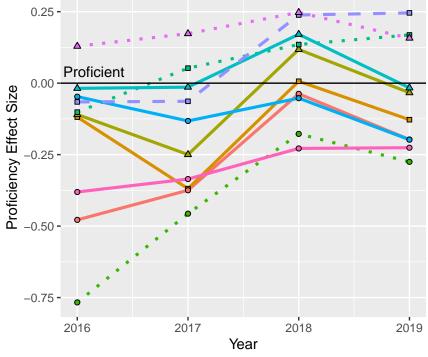
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- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two–dimensional figures into
- categories based on their properties.
 Convert like measurement units within a
- given measurement system.

 Graph points on the coordinate plane
- to solve real-world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance

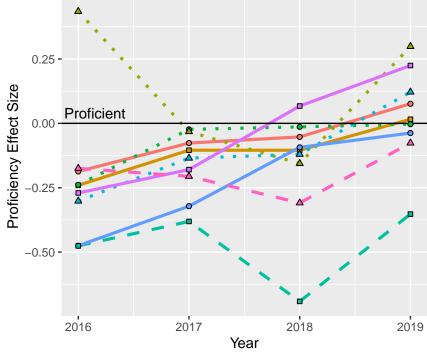


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Target

- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi–digit
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one-variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real-world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance



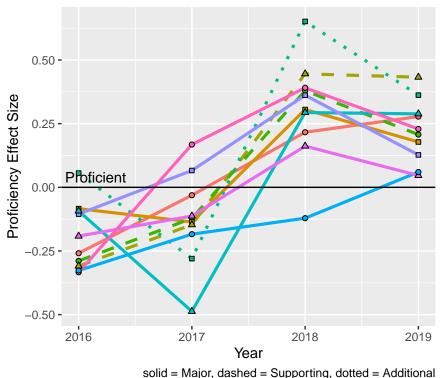
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DRAFT

- Analyze proportional relationships and use them to solve real-world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add,
- subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical problems involving angle measure, area, surface area, and volume.
- Solve real-life and mathematical problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- about a population.

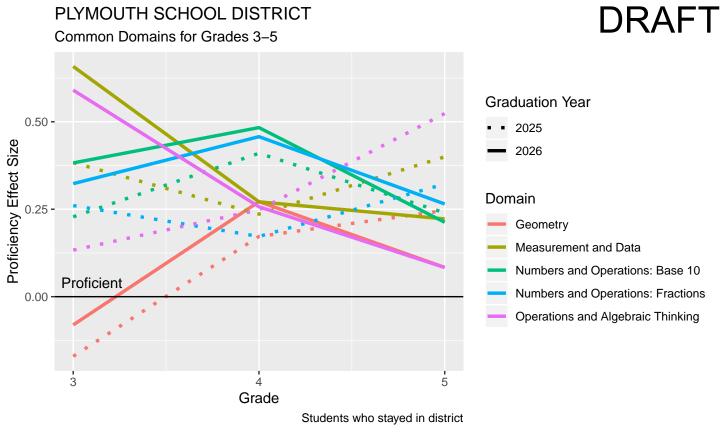
Grade 8 Target Performance

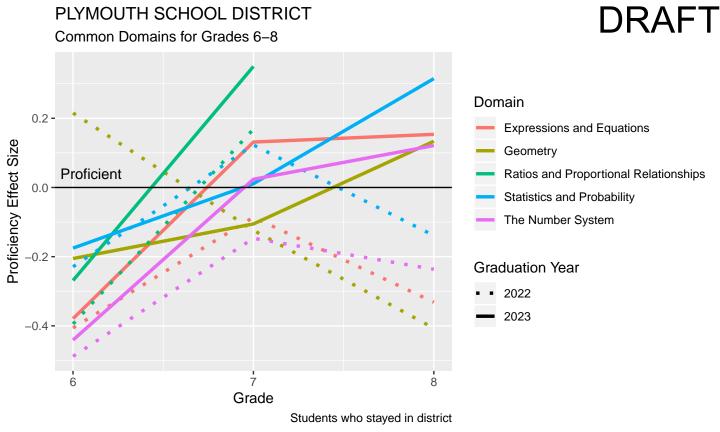
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Target

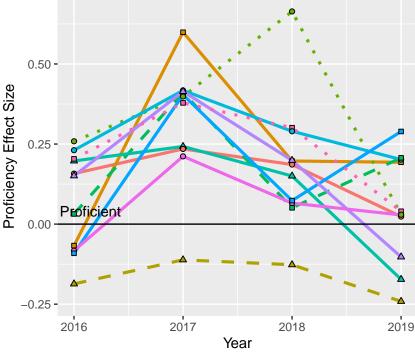
- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real—world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and integer exponents.





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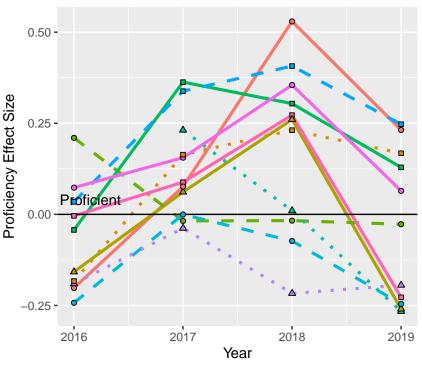
solid = Major, dashed = Supporting, dotted = Additional

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
- Solve problems involving measurement and estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four
 operations, and identify and explain
- patterns in arithmetic.
 Understand concepts of area and relate
- area to multiplication and to addition.
 Understand properties of multiplication
 and the relationship between
- multiplication and division.
 Use place value understanding and properties of arithmetic to perform
- properties of arithmetic to perform multi–digit arithmetic.

Target

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Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.

 Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

Extend understanding of fraction equivalence and ordering.
Gain familiarity with factors and

multiples.
Generalize place value understanding for multi-digit whole numbers.

Generate and analyze patterns.

 Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

understand concepts of angle and measure angles.

Understand decimal notation for fractions, and compare decimal fractions.

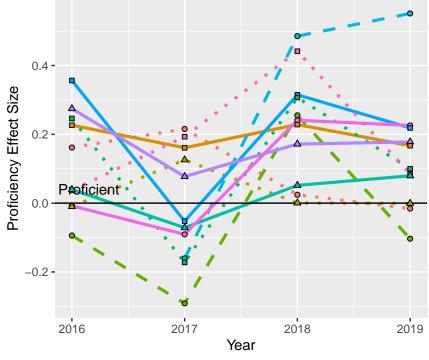
 Use place value understanding and properties of operations to perform multi-digit arithmetic.

Use the four operations with whole numbers to solve problems.

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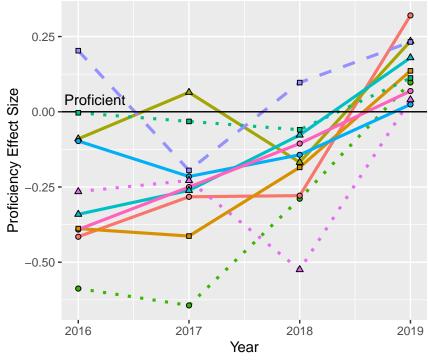


solid = Major, dashed = Supporting, dotted = Additional

- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.

 Classify two–dimensional figures into
- categories based on their properties.
 Convert like measurement units within a
- given measurement system.
 Graph points on the coordinate plane
- to solve real–world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance

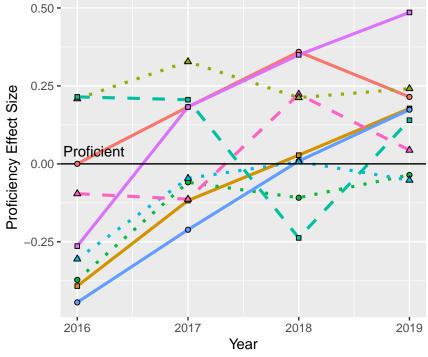


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Target

- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi-digit
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 Develop understanding of statistical variability.
- Reason about and solve one-variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real—world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance

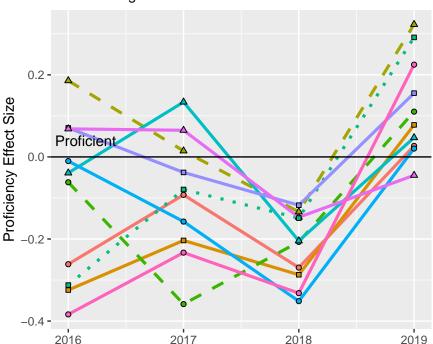


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- Analyze proportional relationships and use them to solve real-world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add,
- subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical problems involving angle measure, area,
- surface area, and volume. Solve real-life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- about a population.

Grade 8 Target Performance

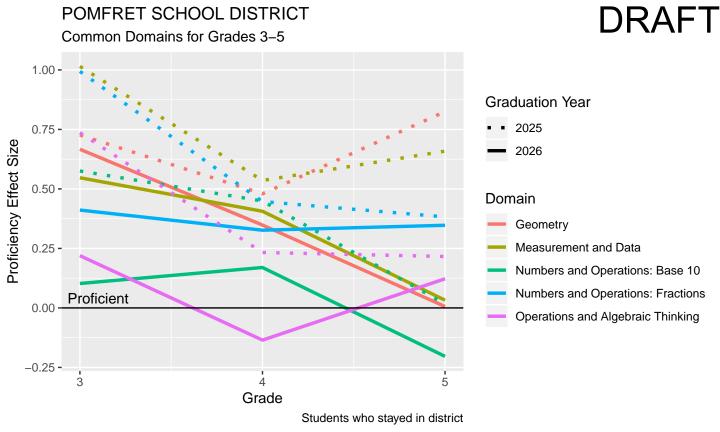


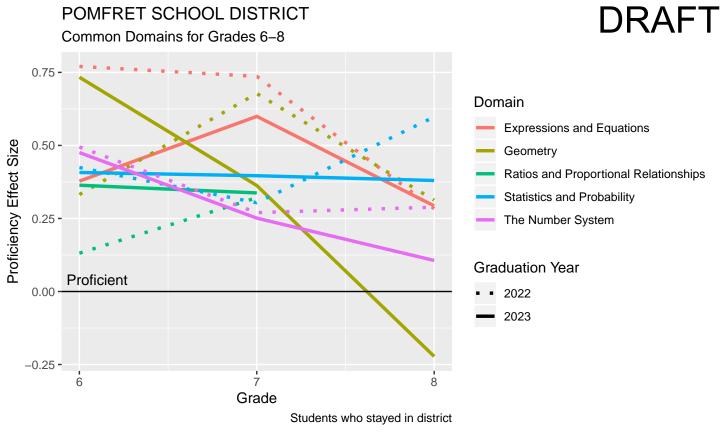
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Year

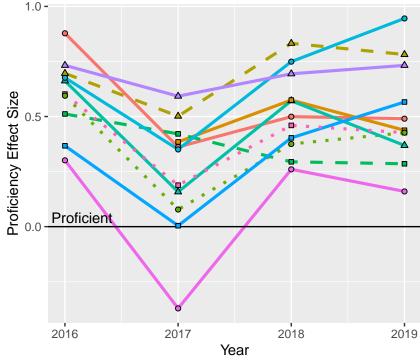
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- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real—world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and integer exponents.





Grade 3 Target Performance

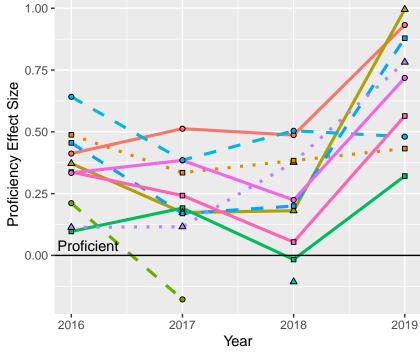


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- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
- estimation of intervals of time, liquid
- volumes, and masses of objects. Solve problems involving the four
- operations, and identify and explain patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division. Use place value understanding and
- properties of arithmetic to perform multi-digit arithmetic.

Grade 4 Target Performance



solid = Major, dashed = Supporting, dotted = Additional

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Target

Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.

Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

Extend understanding of fraction equivalence and ordering.
Gain familiarity with factors and

multiples.
Generalize place value understanding for multi–digit whole numbers.

■ Generate and analyze patterns.

Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

understand concepts of angle and measure angles.

Understand decimal notation for fractions, and compare decimal fractions.
Use place value understanding and

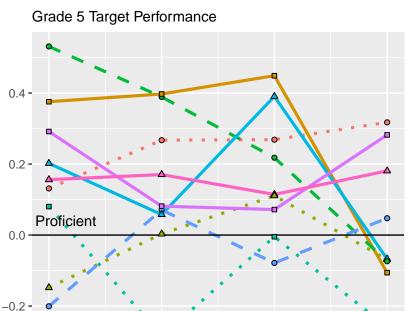
properties of operations to perform multi-digit arithmetic.
Use the four operations with whole

Use the four operations with whole numbers to solve problems.

2017

Proficiency Effect Size

2016



solid = Major, dashed = Supporting, dotted = Additional

Year

2018

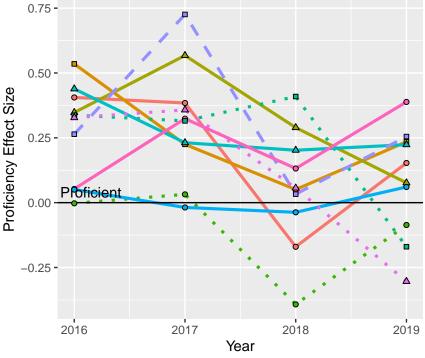
2019

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- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
- Classify two–dimensional figures into categories based on their properties.
 Convert like measurement units within a
- given measurement system.

 Graph points on the coordinate plane
- to solve real–world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
 - Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance

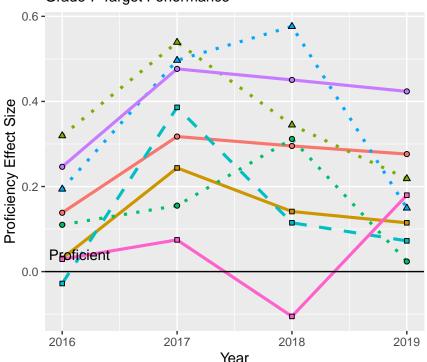


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Target

- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi-digit
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one–variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real–world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance



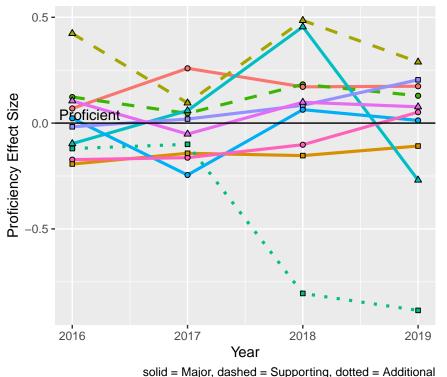
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- Analyze proportional relationships and use them to solve real–world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational
- numbers.
 Draw, construct and describe geometrical figures and describe the relationships
- figures and describe the relationships between them.
 Investigate chance processes and
- develop, use, and evaluate probability models.
- Solve real–life and mathematical problems involving angle measure, area, surface area, and volume.
- Solve real-life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- Use random sampling to draw interence about a population.

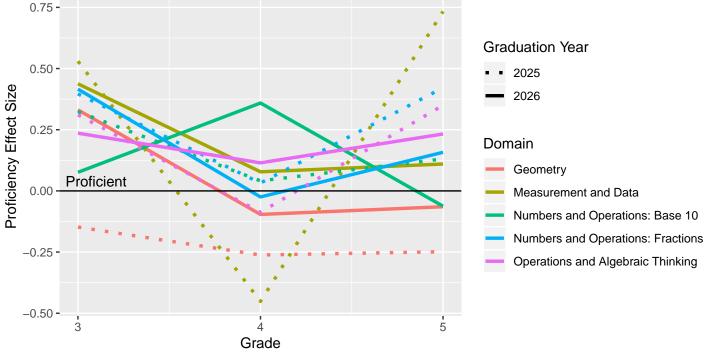
Grade 8 Target Performance





- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions: Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real–world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and integer exponents.

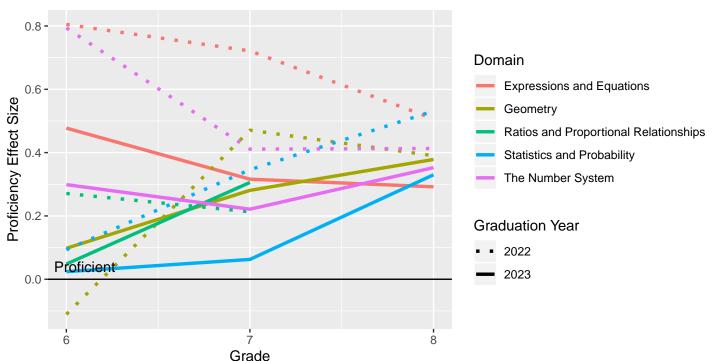
PORTLAND SCHOOL DISTRICT Common Domains for Grades 3–5 5-



Students who stayed in district

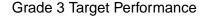
PORTLAND SCHOOL DISTRICT Common Domains for Grades 6–8

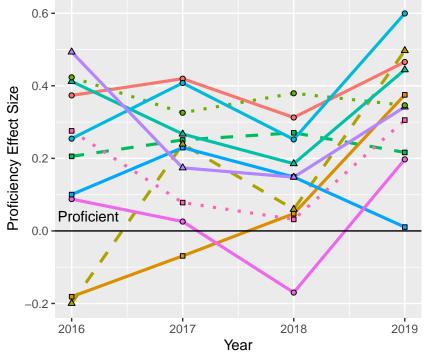




Students who stayed in district

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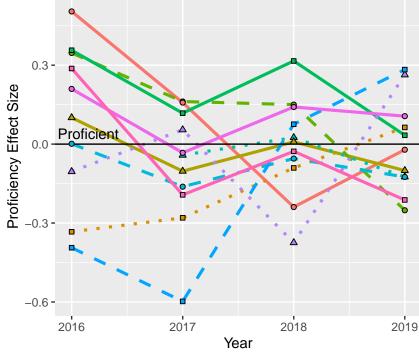


solid = Major, dashed = Supporting, dotted = Additional

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
- estimation of intervals of time, liquid
- volumes, and masses of objects. Solve problems involving the four operations, and identify and explain
- patterns in arithmetic. Understand concepts of area and relate area to multiplication and to addition.
- Understand properties of multiplication and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi-digit arithmetic.

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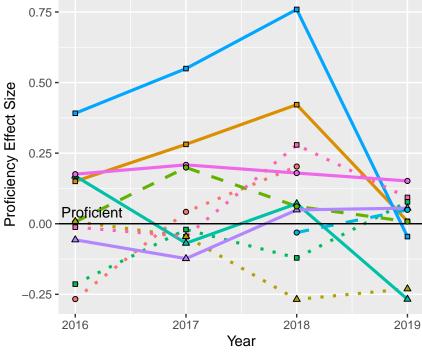




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- Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.
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- Understand decimal notation for fractions, and compare decimal fractions.
- Use place value understanding and properties of operations to perform multi-digit arithmetic.
- Use the four operations with whole numbers to solve problems.

Grade 5 Target Performance

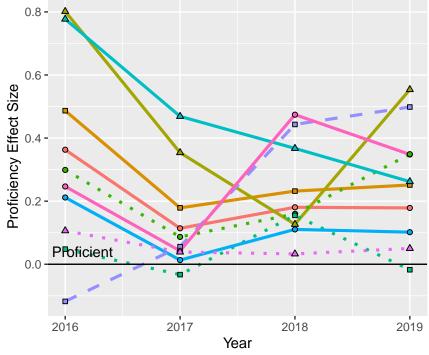


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- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
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 Classify two-dimensional figures into
- categories based on their properties.
 Convert like measurement units within a given measurement system.
- Graph points on the coordinate plane to solve real–world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance



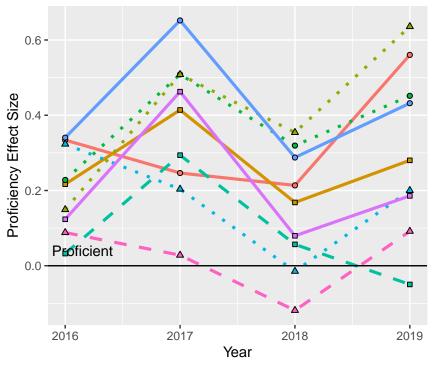
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- Apply and extend previous understandings of arithmetic to algebraic expressions.

 Apply and extend previous understandings
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 Solve real–world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance

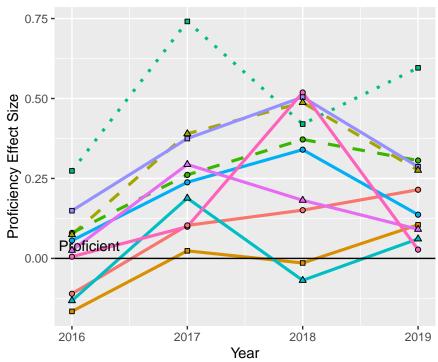


solid = Major, dashed = Supporting, dotted = Additional

DRAFT

- Analyze proportional relationships and use them to solve real-world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational
- numbers. Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical problems involving angle measure, area, surface area, and volume.
- Solve real-life and mathematical problems using numerical and algebraic
- expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- about a population.

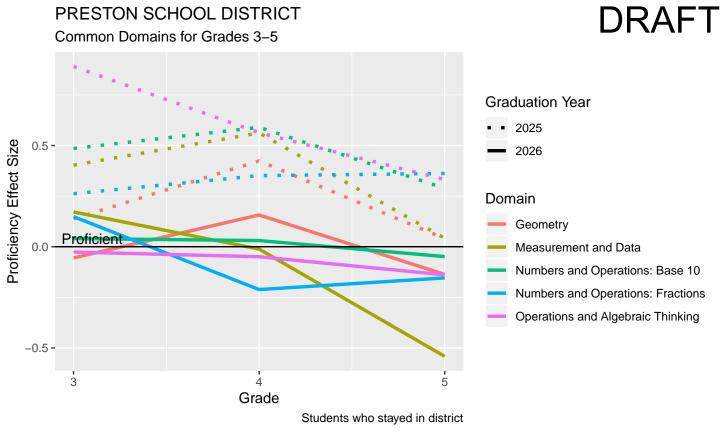
Grade 8 Target Performance

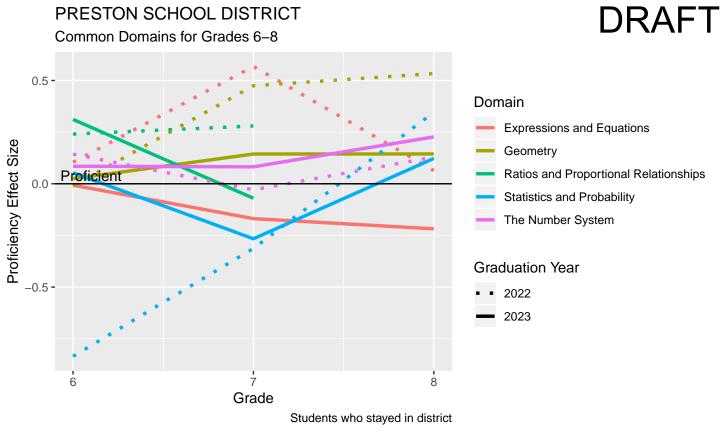


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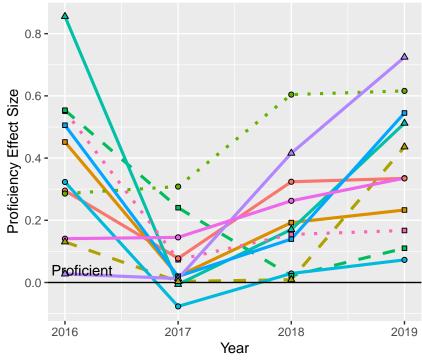
Target

- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real–world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and integer exponents.





Grade 3 Target Performance



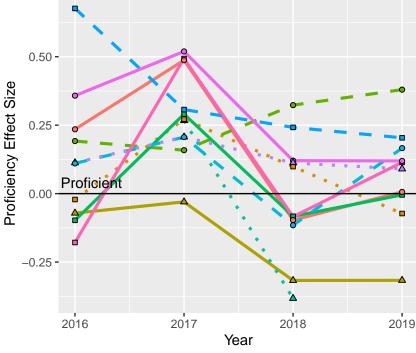
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DRAFT

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
- Solve problems involving measurement and estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four
- operations, and identify and explain patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition.
 Understand properties of multiplication
- and the relationship between multiplication and division.
 Use place value understanding and
- properties of arithmetic to perform multi–digit arithmetic.

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Target

Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.

 Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

Extend understanding of fraction equivalence and ordering.
Gain familiarity with factors and

multiples.
Generalize place value understanding for

multi–digit whole numbers.

Generate and analyze patterns.

Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

understand concepts of angle and measure angles.

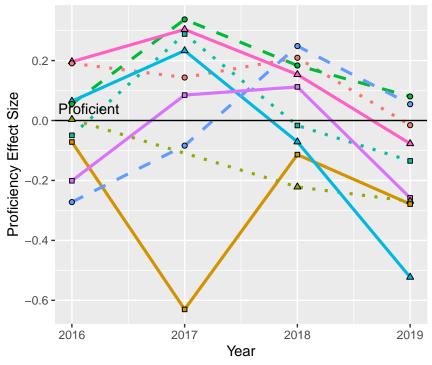
Understand decimal notation for fractions, and compare decimal fractions.

 Use place value understanding and properties of operations to perform multi-digit arithmetic.

Use the four operations with whole numbers to solve problems.

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Grade 5 Target Performance



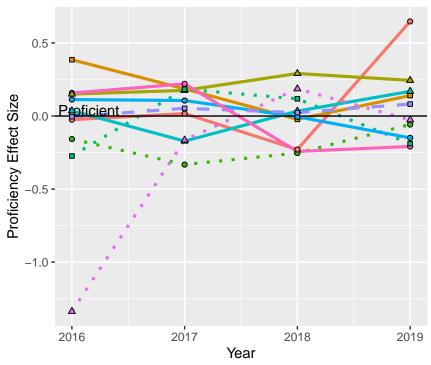
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DRAFT

- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.

 Classify two-dimensional figures into
- categories based on their properties.
 Convert like measurement units within a
- given measurement system.
 Graph points on the coordinate plane
- to solve real-world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance



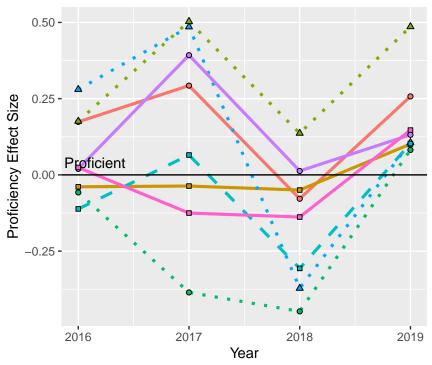
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Target

- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi–digit
 numbers and find common factors and
- numbers and find common factors and multiples.
 Develop understanding of statistical
- variability.

 Reason about and solve one–variable
- equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real-world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance



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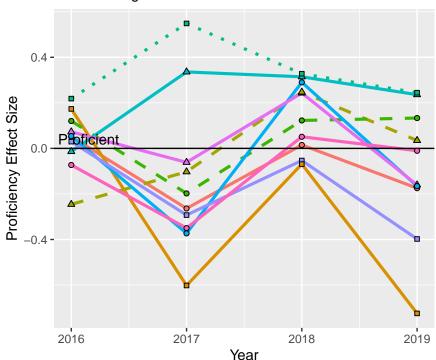
Target

- Analyze proportional relationships and use them to solve real–world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational
- numbers.

 Draw, construct and describe geometrical figures and describe the relationships
- figures and describe the relationships between them.
 Investigate chance processes and
- develop, use, and evaluate probability models.
- Solve real–life and mathematical problems involving angle measure, area, surface area, and volume.
- Solve real-life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- Use random sampling to draw inference about a population.

PRESTON SCHOOL DISTRICT

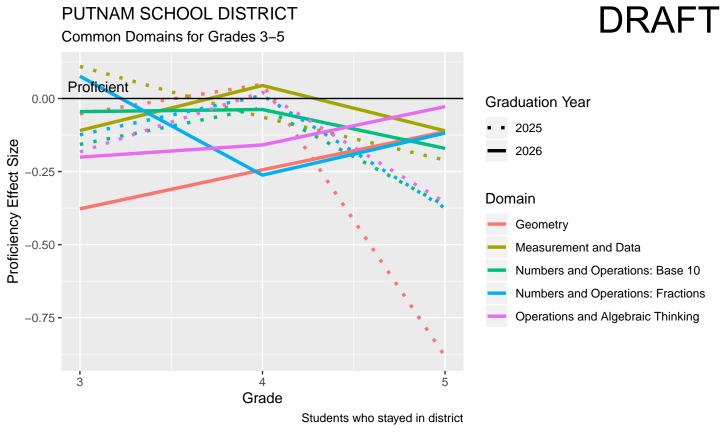
Grade 8 Target Performance

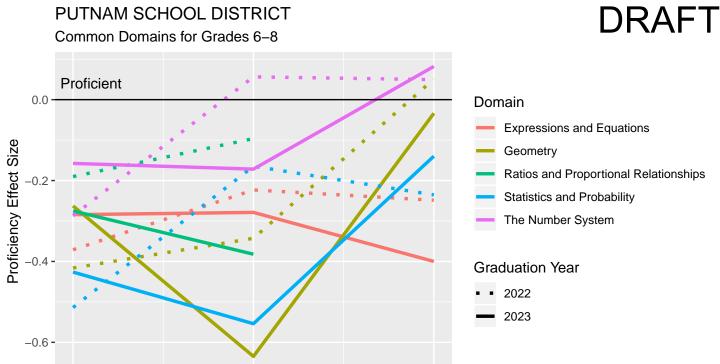


DRAFT

Target

- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions: Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real—world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and intege exponents.





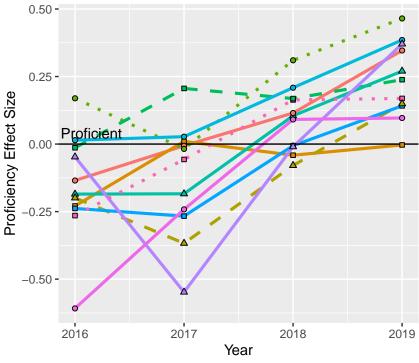
Students who stayed in district

Grade

6

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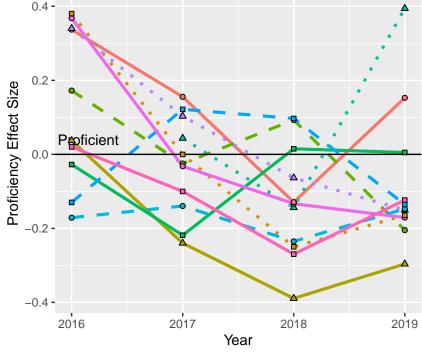




solid = Major, dashed = Supporting, dotted = Additional

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
- estimation of intervals of time, liquid
- volumes, and masses of objects. Solve problems involving the four operations, and identify and explain
- patterns in arithmetic. Understand concepts of area and relate
- area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division. Use place value understanding and
- properties of arithmetic to perform multi-digit arithmetic.

Grade 4 Target Performance



solid = Major, dashed = Supporting, dotted = Additional

DRAFT

Target

Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.

 Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

Extend understanding of fraction equivalence and ordering.
Gain familiarity with factors and

multiples.
Generalize place value understanding for multi-digit whole numbers.

Generate and analyze patterns.

Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

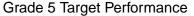
understand concepts of angle and measure angles.

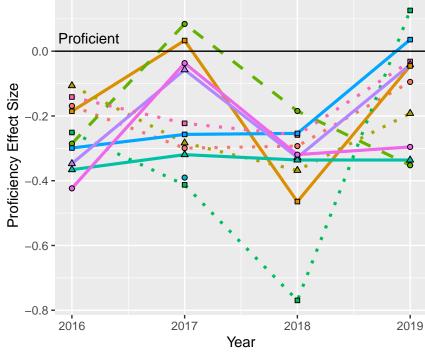
Understand decimal notation for fractions, and compare decimal fractions.
Use place value understanding and

properties of operations to perform multi-digit arithmetic.

Use the four operations with whole numbers to solve problems.

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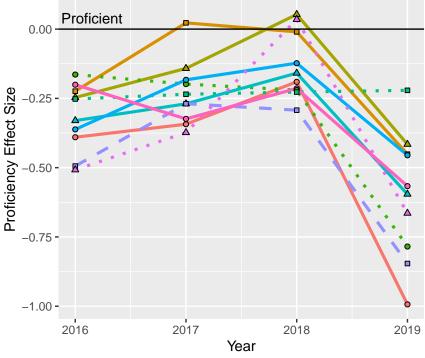




solid = Major, dashed = Supporting, dotted = Additional

- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions. Classify two-dimensional figures into
- categories based on their properties. Convert like measurement units within a
- given measurement system. Graph points on the coordinate plane
- to solve real-world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance

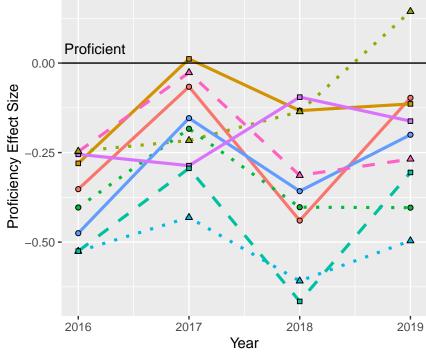


DRAFT

Target

- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi-digit
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one–variable equations and inequalities. Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real–world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance



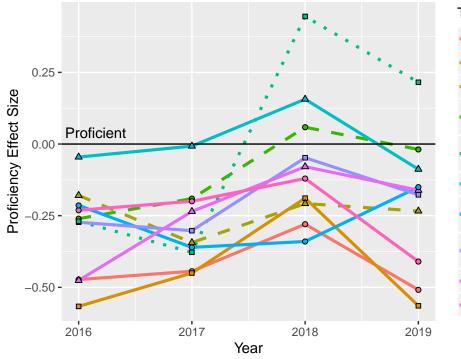
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DRAFT

- Analyze proportional relationships and use them to solve real—world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add
- of operations with fractions to add, subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real–life and mathematical problems involving angle measure, area, surface area, and volume.
- Solve real–life and mathematical problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- Use random sampling to draw inference about a population.

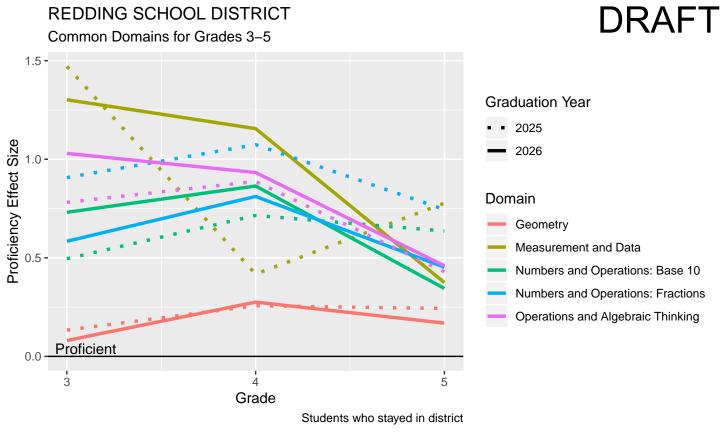
Grade 8 Target Performance

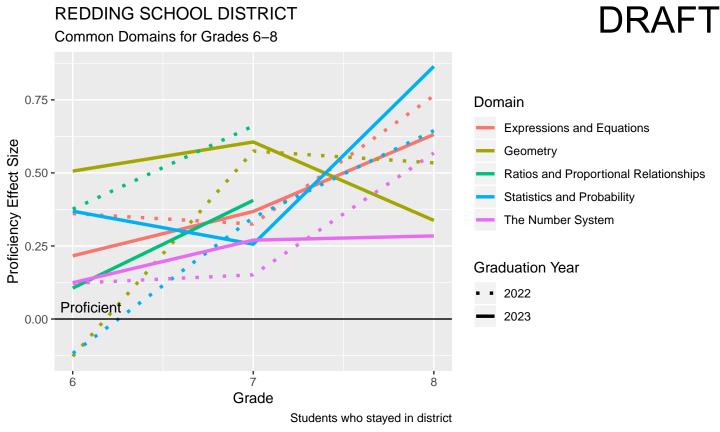




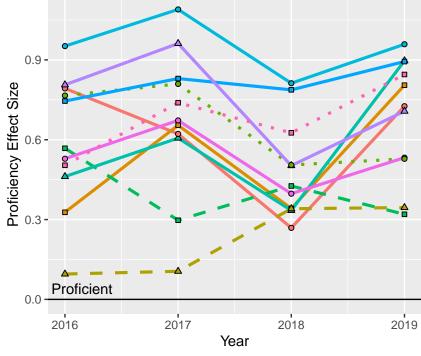
Target

- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real—world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and intege exponents.





Grade 3 Target Performance

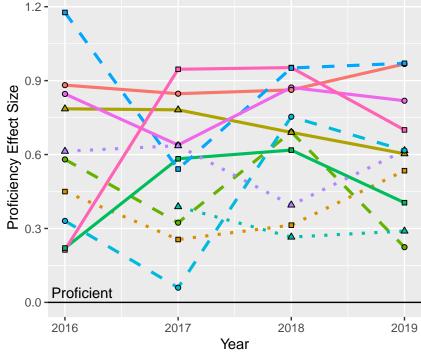


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DRAFT

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
- Solve problems involving measurement and estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four
- operations, and identify and explain patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition.
 Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi–digit arithmetic.

Grade 4 Target Performance



solid = Major, dashed = Supporting, dotted = Additional

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Target

Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.

Draw and identify lines and angles, and classify shapes by properties of their

lines and angles.

Extend understanding of fraction equivalence and ordering. Gain familiarity with factors and

multiples. Generalize place value understanding for

multi-digit whole numbers.

Generate and analyze patterns.

Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

understand concepts of angle and measure angles.

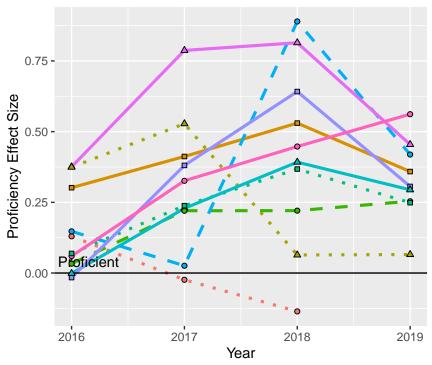
Understand decimal notation for fractions, and compare decimal fractions.

Use place value understanding and properties of operations to perform multi-digit arithmetic.

Use the four operations with whole numbers to solve problems.

Grade 5 Target Performance

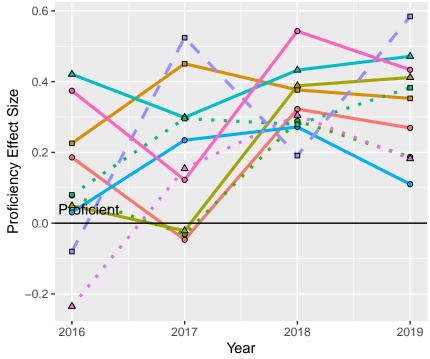




Target

- • Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to multiply and divide fractions.
- Classify two-dimensional figures into categories based on their properties.
- Convert like measurement units within a given measurement system.
- Graph points on the coordinate plane to solve real–world and mathematical problems.
- Perform operations with multi-digit
- whole numbers and with decimals to hundredths.
 Understand concepts of volume and
- relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance

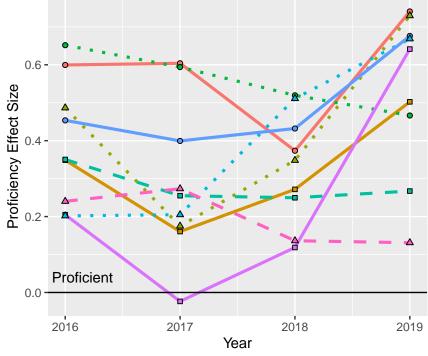


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DRAFT

- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi-digit
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one-variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real–world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance



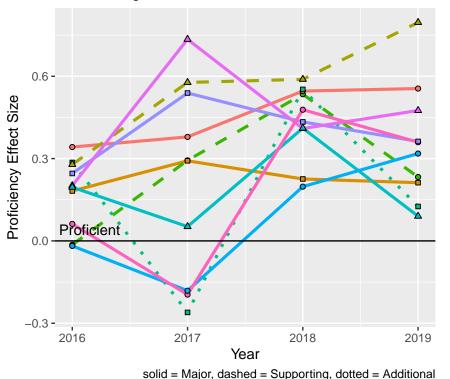
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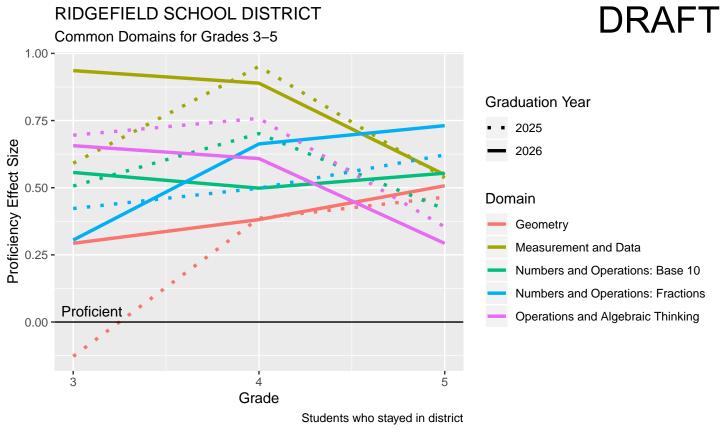
- Analyze proportional relationships
 and use them to solve real—world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add,
- of operations with fractions to add, subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- • figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical problems involving angle measure, area,
- surface area, and volume.
 Solve real-life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- Use random sampling to draw inference about a population.

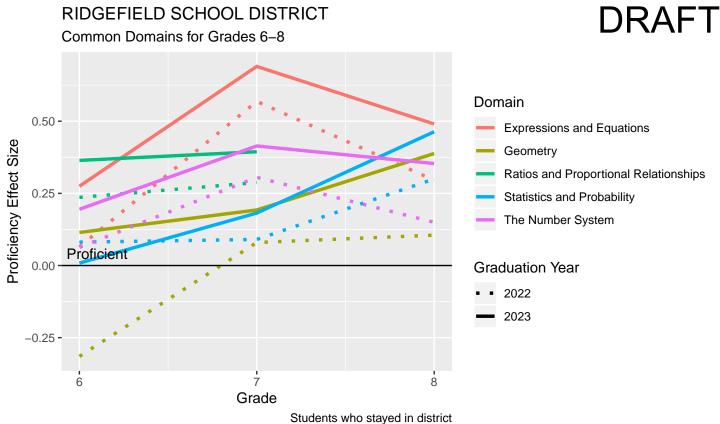
Grade 8 Target Performance



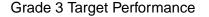


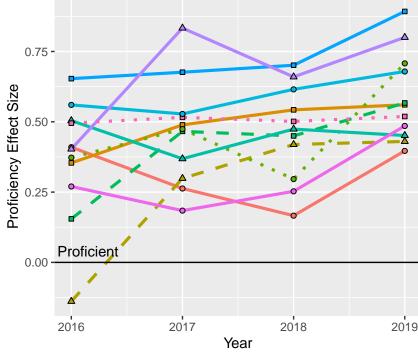
- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real–world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and intege exponents.





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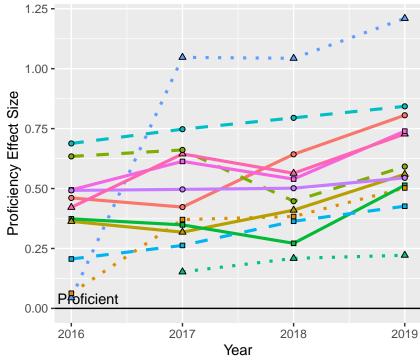




Target

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
 - estimation of intervals of time, liquid
- volumes, and masses of objects. Solve problems involving the four operations, and identify and explain
- patterns in arithmetic. Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi-digit arithmetic.

Grade 4 Target Performance



solid = Major, dashed = Supporting, dotted = Additional

Target

DRAFT

Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.

Draw and identify lines and angles, and classify shapes by properties of their

lines and angles. Extend understanding of fraction equivalence and ordering. Gain familiarity with factors and

multiples.

Generalize place value understanding for multi-digit whole numbers.

Generate and analyze patterns.

Represent and interpret data.

Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

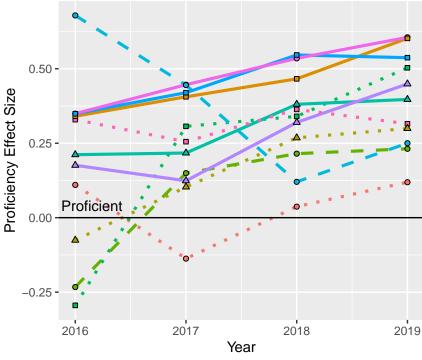
understand concepts of angle and measure angles. Understand decimal notation for

fractions, and compare decimal fractions. Use place value understanding and

properties of operations to perform multi-digit arithmetic.
Use the four operations with whole

numbers to solve problems.

Grade 5 Target Performance



DRAFT

Target

- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two-dimensional figures into
- categories based on their properties.
 Convert like measurement units within a given measurement system.
- Graph points on the coordinate plane to solve real–world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
 - Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance

2016



2017

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Year

2018

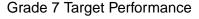
2019

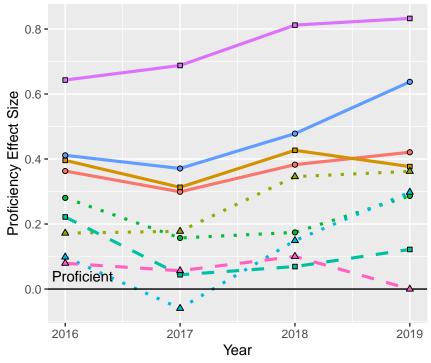
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Target

numbers.

- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- Compute fluently with multi-digit
 numbers and find common factors and
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one-variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real—world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.



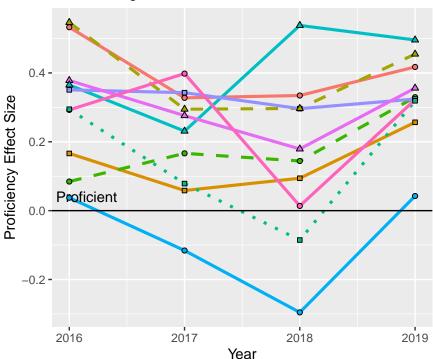


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DRAFT

- Analyze proportional relationships and use them to solve real-world and mathematical problems. Apply and extend previous understandings
- of operations with fractions to add, subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical problems involving angle measure, area,
- surface area, and volume. Solve real-life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- about a population.

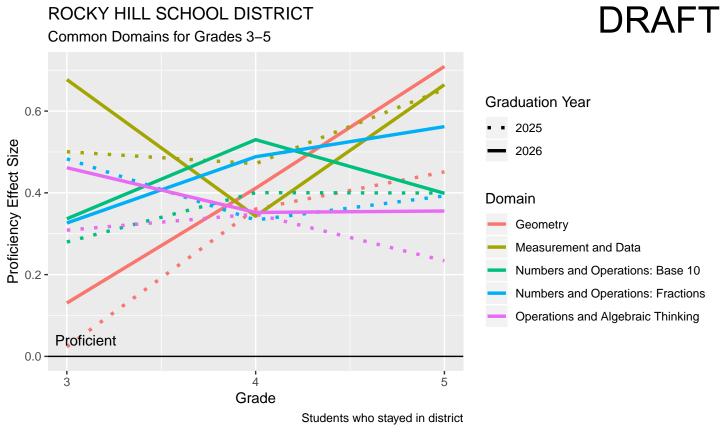
Grade 8 Target Performance

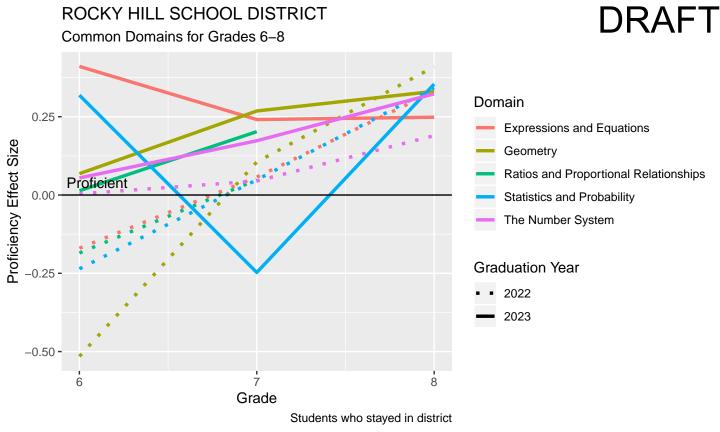


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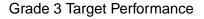
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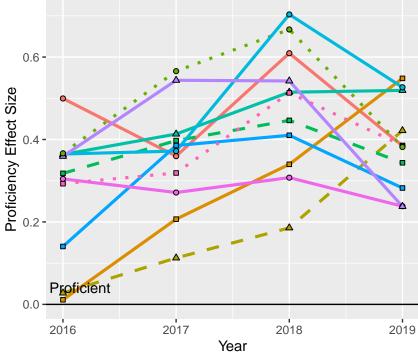
- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
 - Know that there are numbers that are not rational, and approximate them by rational numbers.
 - Solve real–world and mathematical problems involving volume of cylinders, cones and spheres.
 - Understand and apply the Pythagorean theorem.
 - Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and intege exponents.





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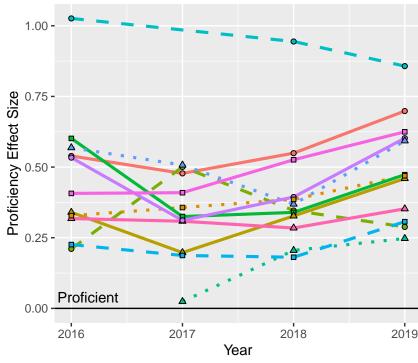




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- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
- Solve problems involving measurement and estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four
- operations, and identify and explain patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi-digit arithmetic.

Grade 4 Target Performance



solid = Major, dashed = Supporting, dotted = Additional

DRAFT

Target

Build fractions from unit fractions by applying and extending previous

understandings of operations on whole numbers. Draw and identify lines and angles, and

classify shapes by properties of their lines and angles.

Extend understanding of fraction equivalence and ordering. Gain familiarity with factors and

multiples.

Generalize place value understanding for multi-digit whole numbers.

Generate and analyze patterns.

Represent and interpret data.

Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

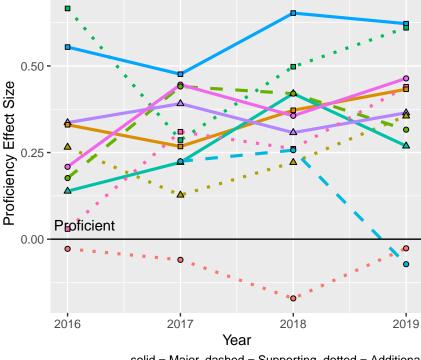
understand concepts of angle and measure angles. Understand decimal notation for

fractions, and compare decimal fractions.

Use place value understanding and properties of operations to perform multi-digit arithmetic.
Use the four operations with whole

numbers to solve problems.

Grade 5 Target Performance

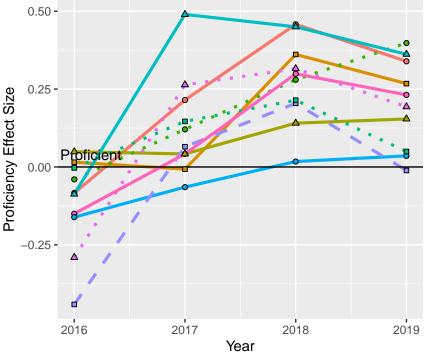


solid = Major, dashed = Supporting, dotted = Additional

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- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions. Classify two-dimensional figures into
- categories based on their properties. Convert like measurement units within a
- given measurement system. Graph points on the coordinate plane
- to solve real-world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance

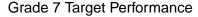


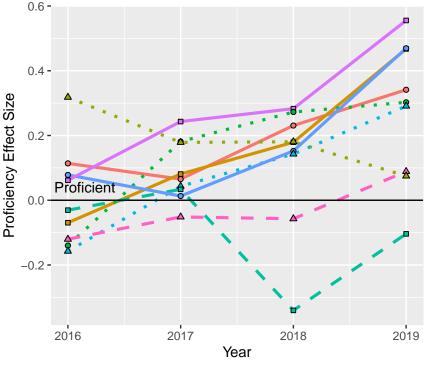
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Target

- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi–digit
 numbers and find common factors and
- multiples.
 Develop understanding of statistical variability.
- Reason about and solve one–variable equations and inequalities. Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real-world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

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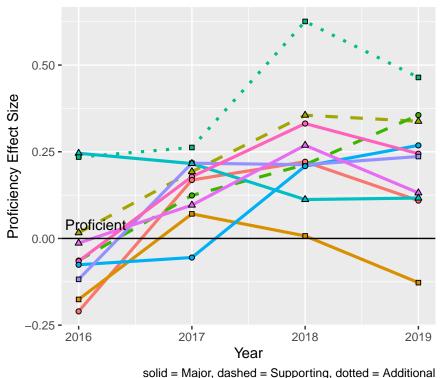


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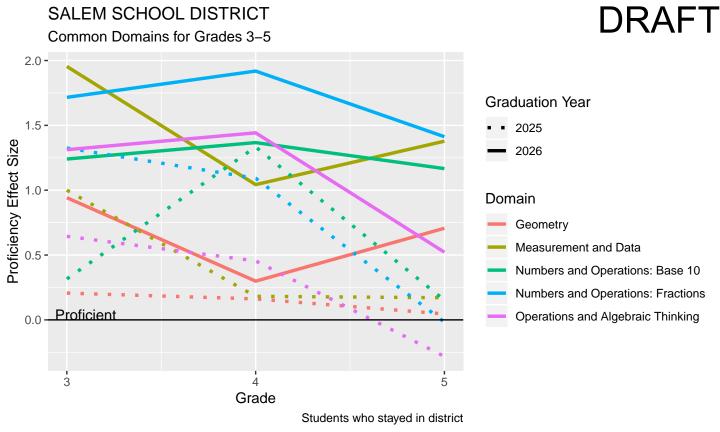
- Analyze proportional relationships and use them to solve real–world and mathematical problems.
 - Apply and extend previous understandings of operations with fractions to add
- of operations with fractions to add, subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical problems involving angle measure, area, surface area, and volume.
- Solve real–life and mathematical problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- Use random sampling to draw inference about a population.

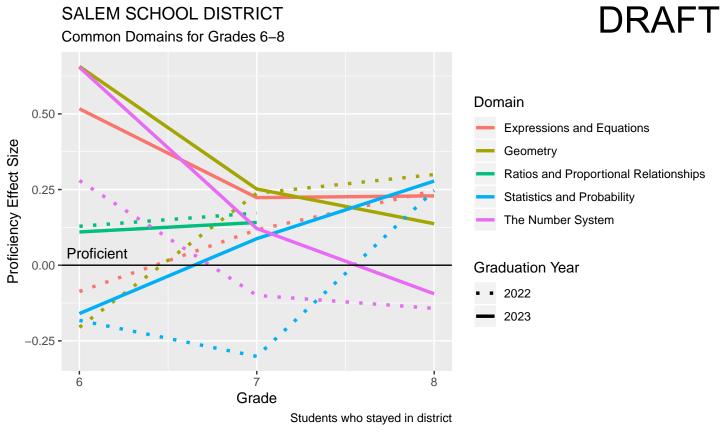
Grade 8 Target Performance





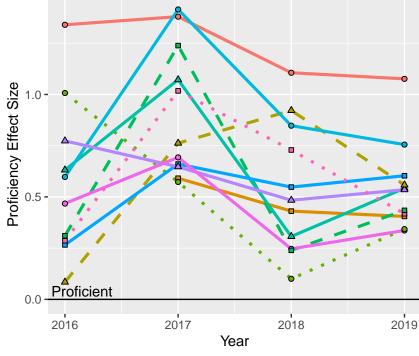
- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real–world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and integer exponents.





SALEM SCHOOL DISTRICT

Grade 3 Target Performance

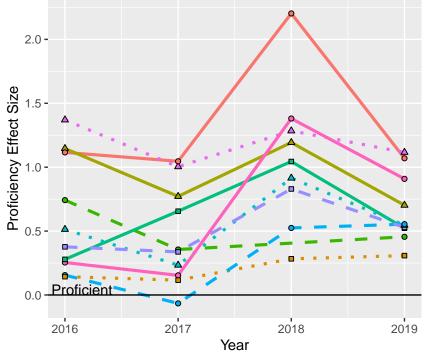


solid = Major, dashed = Supporting, dotted = Additional

DRAFT

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division.
 Solve problems involving measurement and
 - Solve problems involving measurement and estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four
 operations, and identify and explain
- patterns in arithmetic.
 Understand concepts of area and relate area to multiplication and to addition.
 Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi–digit arithmetic.

Grade 4 Target Performance



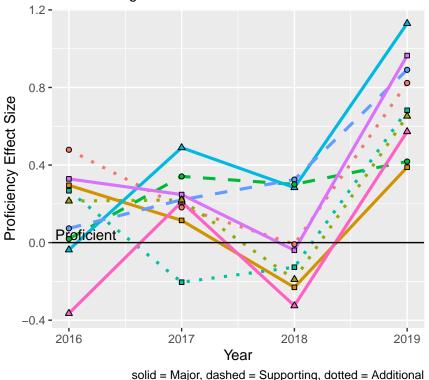
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- Build fractions from unit fractions by applying and extending previous
- by applying and extending previous understandings of operations on whole numbers.
- Draw and identify lines and angles, and classify shapes by properties of their lines and angles.
- Extend understanding of fraction equivalence and ordering.
 Gain familiarity with factors and
- Gain familiarity with factors and multiples.
- Generalize place value understanding for multi-digit whole numbers.
 Solve problems involving measurement and
- conversion of measurements from a larger unit to a smaller unit.
- understand concepts of angle and measure angles.
 Understand decimal notation for
- fractions, and compare decimal fractions.
- Use place value understanding and properties of operations to perform multi–digit arithmetic.
 Use the four operations with whole
- Use the four operations with whole numbers to solve problems.

Grade 5 Target Performance





Target

Apply and extend previous understandings of multiplication and division to

multiply and divide fractions.

Classify two-dimensional figures into

categories based on their properties.
Convert like measurement units within a

given measurement system.
Graph points on the coordinate plane

 to solve real-world and mathematical problems.

Perform operations with multi-digit whole numbers and with decimals to hundredths.

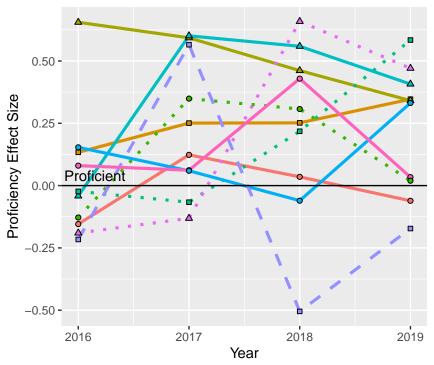
Understand concepts of volume and relate volume to multiplication and to addition.

Understand the place value system.

Use equivalent fractions as a strategy to add and subtract fractions.

Write and interpret numerical expressions.

Grade 6 Target Performance



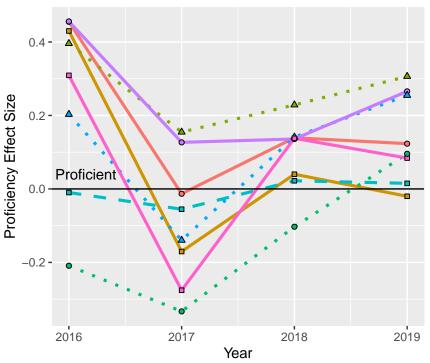
Target

 Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings

DRAFT

- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi-digit
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one–variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real—world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance



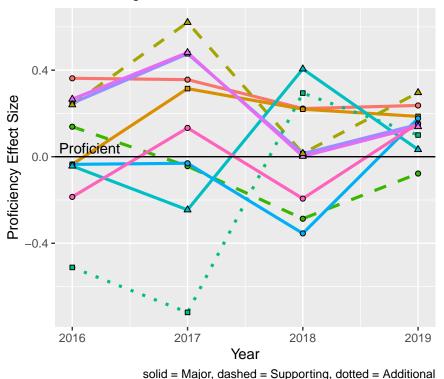
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- Analyze proportional relationships and use them to solve real–world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.
- Draw, construct and describe geometrical figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real–life and mathematical problems involving angle measure, area, surface area, and volume.
- Solve real-life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- Use random sampling to draw inference about a population.

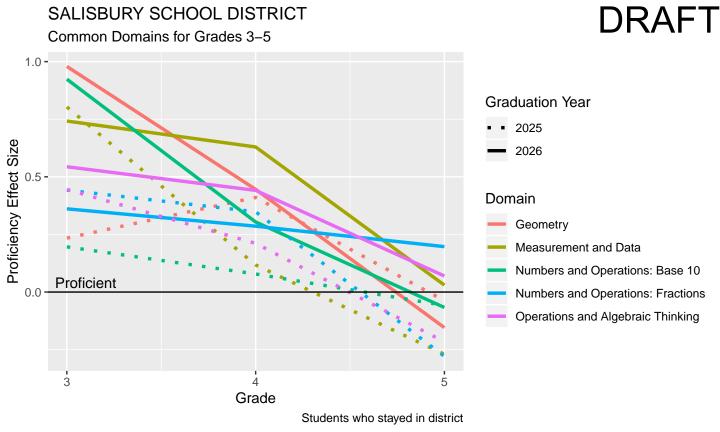
Grade 8 Target Performance

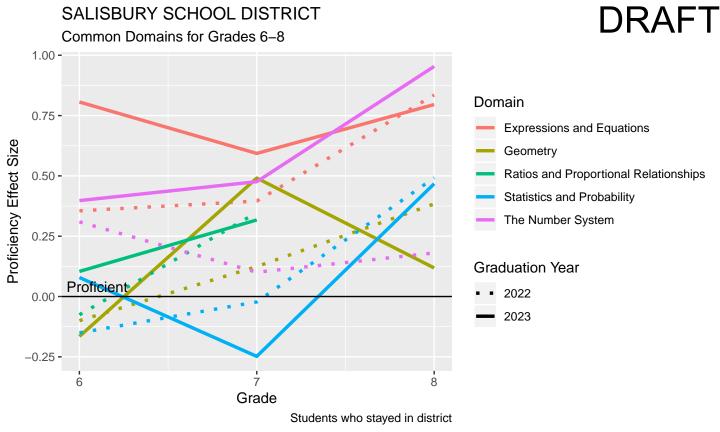




Target

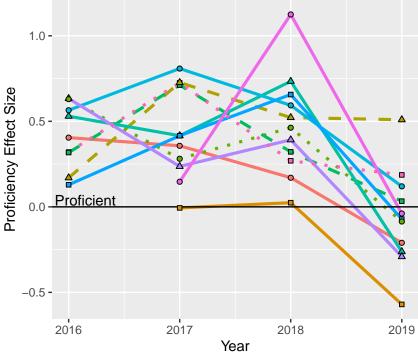
- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions: Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real–world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and integree exponents.





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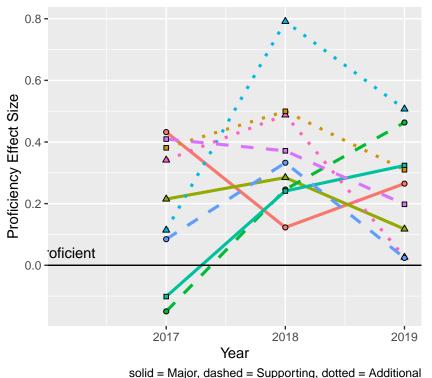


solid = Major, dashed = Supporting, dotted = Additional

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division.
 Solve problems involving measurement and
- Solve problems involving measurement and estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four operations, and identify and explain patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi-digit arithmetic.

Grade 4 Target Performance

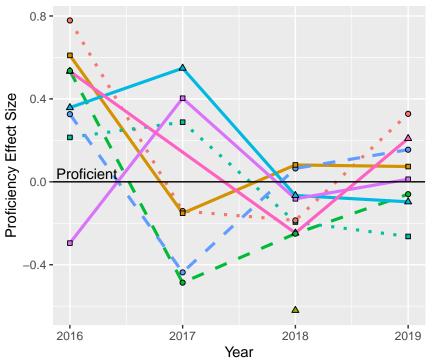




Target

- Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.
- Draw and identify lines and angles, and classify shapes by properties of their lines and angles.
 - Extend understanding of fraction equivalence and ordering.
 Generalize place value understanding for
 - multi-digit whole numbers.
 Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.
 - understand concepts of angle and measure angles.
- Understand decimal notation for fractions, and compare decimal fractions.
- Use place value understanding and properties of operations to perform multi–digit arithmetic.
 Use the four operations with whole
- Use the four operations with whole numbers to solve problems.

Grade 5 Target Performance

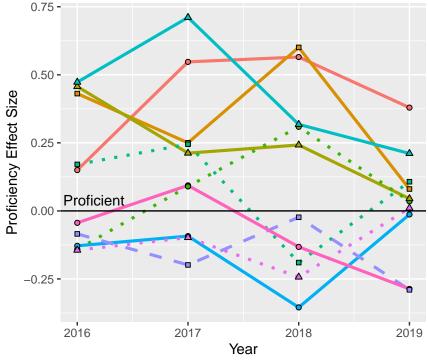


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Target

- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
- Classify two-dimensional figures into categories based on their properties. Convert like measurement units within a
- given measurement system.
 Graph points on the coordinate plane
- to solve real–world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance

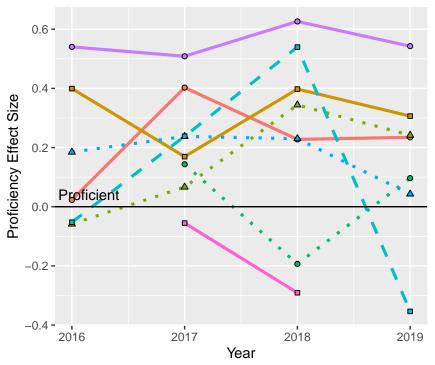


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- Apply and extend previous understandings of arithmetic to algebraic expressions. Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi–digit
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one–variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real-world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance



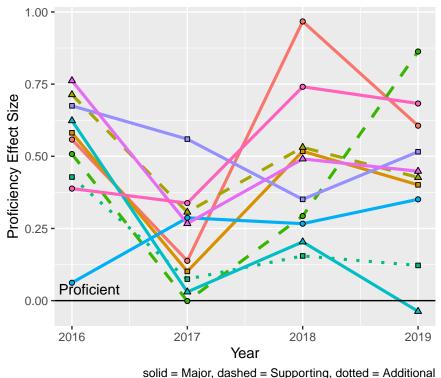
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Target

- Analyze proportional relationships and use them to solve real–world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational
- numbers.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
 Investigate chance processes and
- develop, use, and evaluate probability models.
- Solve real-life and mathematical problems involving angle measure, area,
- surface area, and volume.
 Solve real–life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
- Use random sampling to draw inferences about a population.

Grade 8 Target Performance

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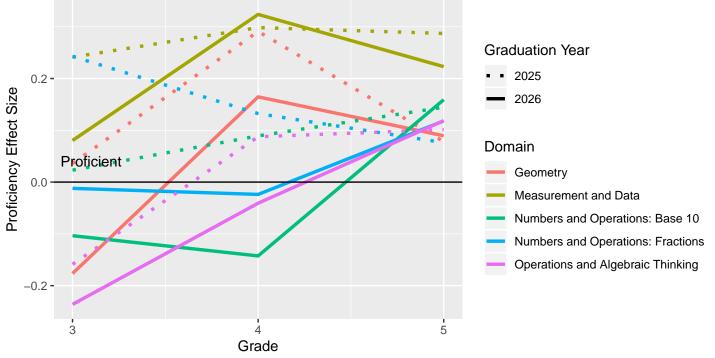


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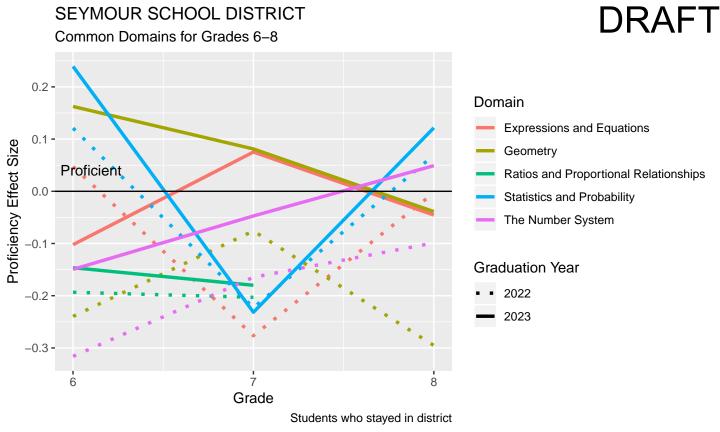
- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
 - Solve real-world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies,
- or geometry software.
 Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and intege exponents.

SEYMOUR SCHOOL DISTRICT Common Domains for Grades 3–5



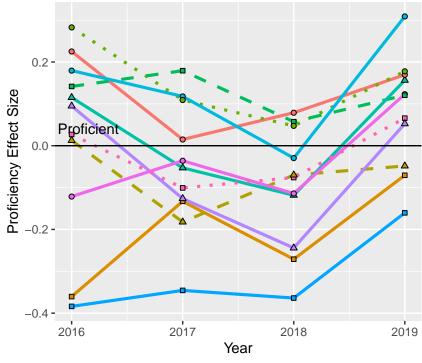


Students who stayed in district



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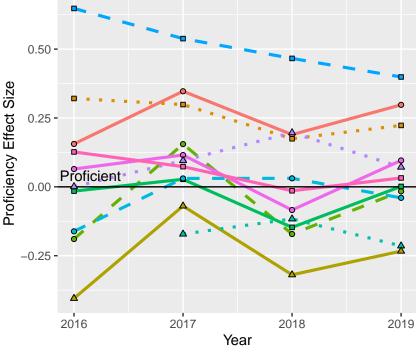


solid = Major, dashed = Supporting, dotted = Additional

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division.
- multiplication and division.
 Solve problems involving measurement and estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four
- operations, and identify and explain patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition.
 Understand properties of multiplication
- and the relationship between multiplication and division.
 Use place value understanding and
- properties of arithmetic to perform multi–digit arithmetic.

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Grade 4 Target Performance

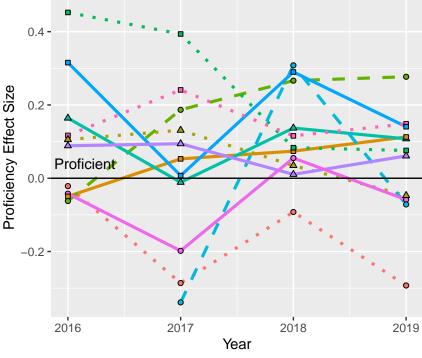


Target

- Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.
- Draw and identify lines and angles, and classify shapes by properties of their lines and angles.
- Extend understanding of fraction equivalence and ordering.
 Gain familiarity with factors and
- multiples.
 Generalize place value understanding for multi–digit whole numbers.
- Generate and analyze patterns.
 - Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.
 - understand concepts of angle and measure angles.
- Understand decimal notation for fractions, and compare decimal fractions.
- Use place value understanding and properties of operations to perform multi-digit arithmetic.

 Use the four operations with whole
- Use the four operations with whole numbers to solve problems.

Grade 5 Target Performance

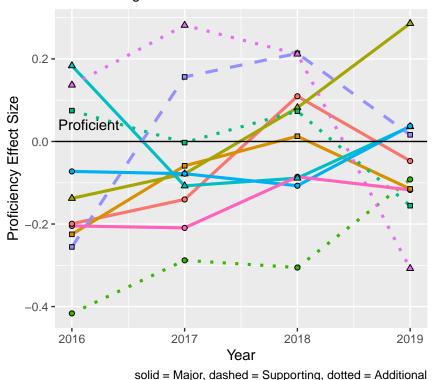


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- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two–dimensional figures into
- categories based on their properties.
 Convert like measurement units within a
- given measurement system.
 Graph points on the coordinate plane
- to solve real–world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

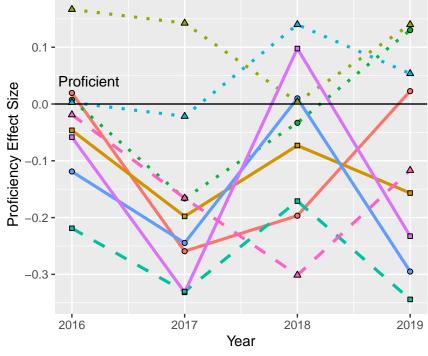
Grade 6 Target Performance



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- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi–digit
 numbers and find common factors and
- multiples.
 Develop understanding of statistical variability.
- Reason about and solve one-variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real—world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance



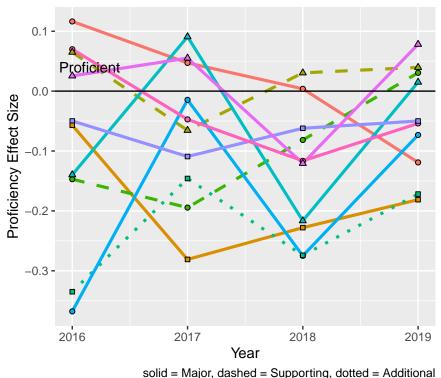
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- Analyze proportional relationships and use them to solve real-world and mathematical problems.
 - Apply and extend previous understandings
- of operations with fractions to add, subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical problems involving angle measure, area, surface area, and volume.
- Solve real-life and mathematical problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate
- equivalent expressions.
 Use random sampling to draw inferences about a population.

Grade 8 Target Performance

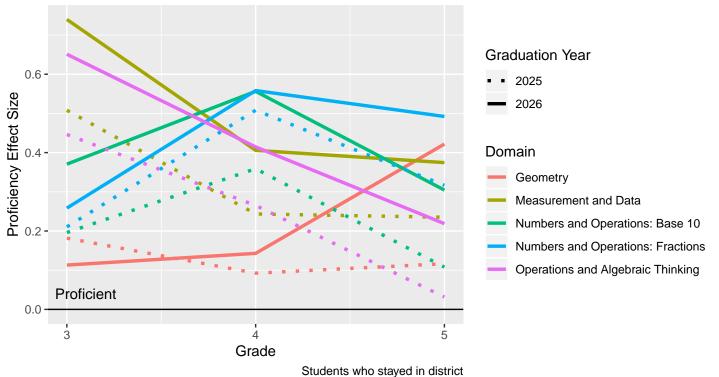


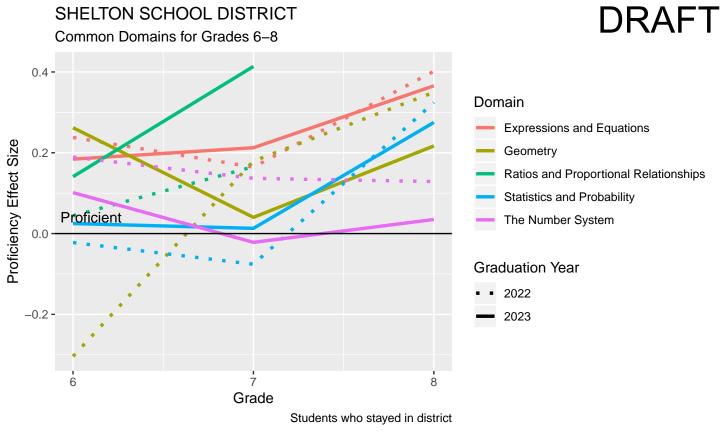


- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real–world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
- Work with radicals and integer exponents.

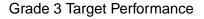
SHELTON SCHOOL DISTRICT Common Domains for Grades 3–5

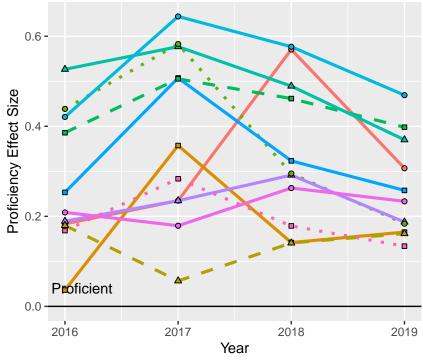
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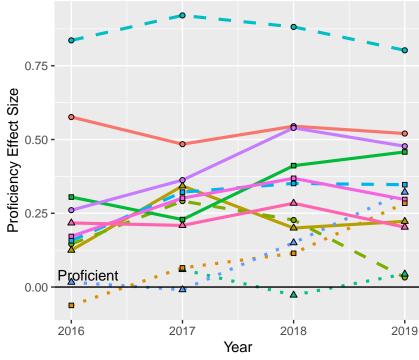




solid = Major, dashed = Supporting, dotted = Additional

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
- Solve problems involving measurement and
 estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four
 operations, and identify and explain
- patterns in arithmetic.
 Understand concepts of area and relate
- area to multiplication and to addition.
 Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi–digit arithmetic.

Grade 4 Target Performance



solid = Major, dashed = Supporting, dotted = Additional

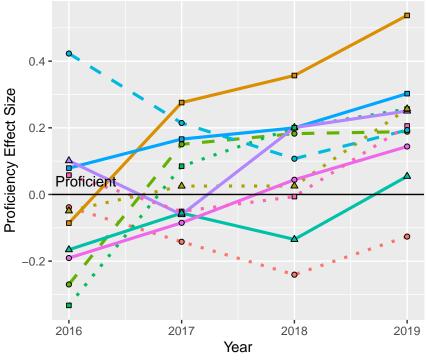
Target

DRAFT

- Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.
- Draw and identify lines and angles, and classify shapes by properties of their lines and angles.
- Extend understanding of fraction equivalence and ordering. Gain familiarity with factors and
 - multiples.
- Generalize place value understanding for multi-digit whole numbers.
- Generate and analyze patterns.
- Represent and interpret data.
- Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.
- understand concepts of angle and measure angles. Understand decimal notation for
- fractions, and compare decimal fractions. Use place value understanding and
- properties of operations to perform multi-digit arithmetic.
 Use the four operations with whole
- numbers to solve problems.

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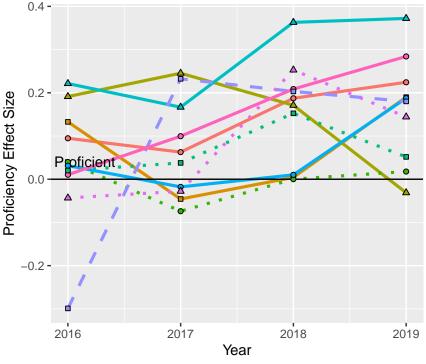
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- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.

 Classify two–dimensional figures into
- categories based on their properties.
 Convert like measurement units within a
- given measurement system.
 Graph points on the coordinate plane
- to solve real–world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

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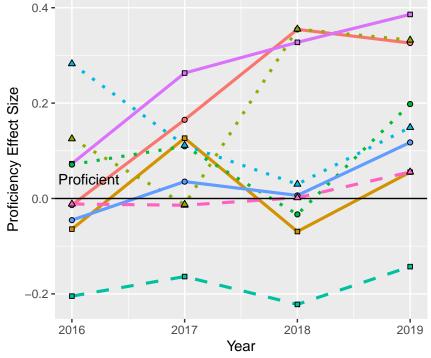
Target

numbers.

- Apply and extend previous understandings of arithmetic to algebraic expressions.

 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- Compute fluently with multi-digit numbers and find common factors and
- multiples.
 Develop understanding of statistical variability.
- Reason about and solve one–variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real—world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance



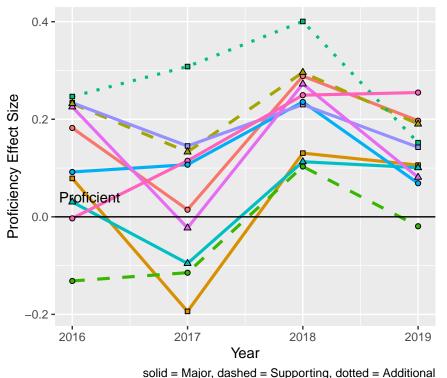
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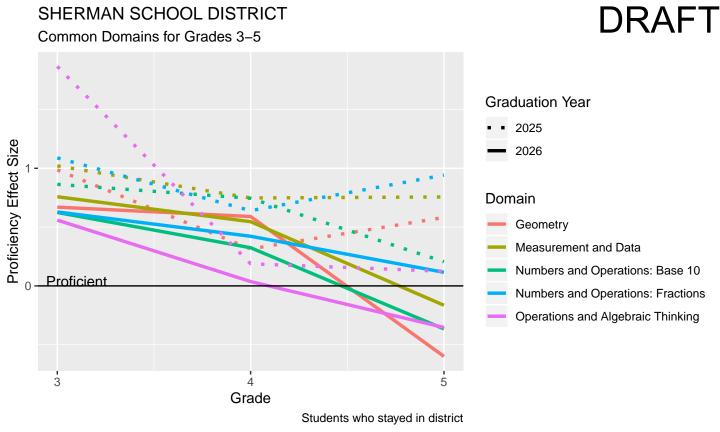
- Analyze proportional relationships
 and use them to solve real–world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add,
- of operations with fractions to add, subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical problems involving angle measure, area,
- problems involving angle measure, area, surface area, and volume.
 Solve real-life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- Use random sampling to draw inference about a population.

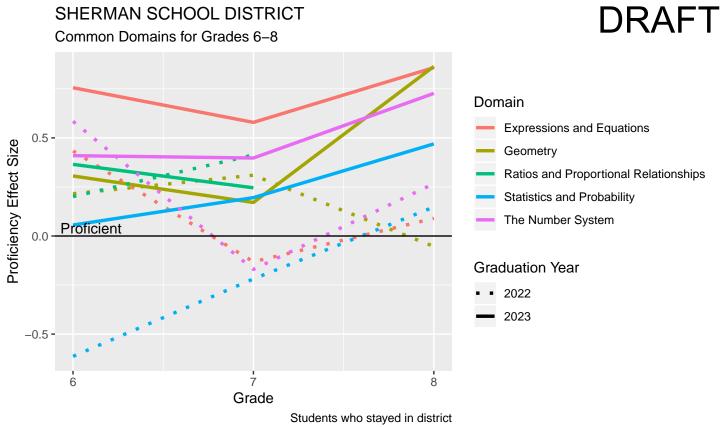
Grade 8 Target Performance



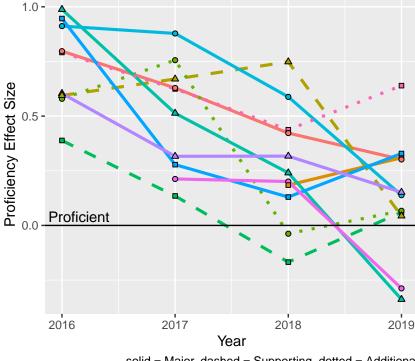


- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real—world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and integer exponents.





Grade 3 Target Performance



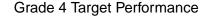
Target

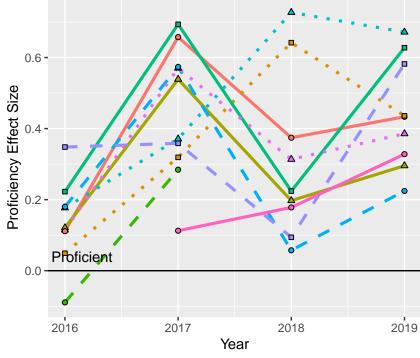
Develop understanding of fractions as numbers.

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- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
- estimation of intervals of time, liquid
- volumes, and masses of objects. Solve problems involving the four
- operations, and identify and explain patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division. Use place value understanding and
- properties of arithmetic to perform multi-digit arithmetic.

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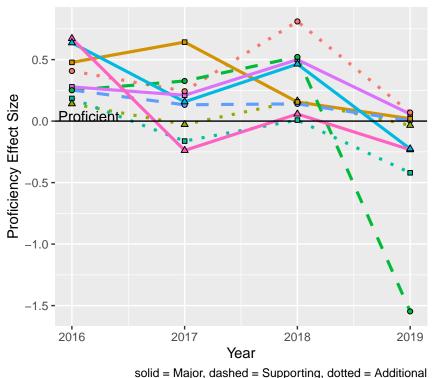


solid = Major, dashed = Supporting, dotted = Additional

- Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.
- Draw and identify lines and angles, and classify shapes by properties of their lines and angles.
- Extend understanding of fraction equivalence and ordering.
 Gain familiarity with factors and
- multiples.
 Generalize place value understanding for
- multi-digit whole numbers.
 Solve problems involving measurement and
- conversion of measurements from a larger unit to a smaller unit.
- understand concepts of angle and measure angles.
 Understand decimal notation for
- fractions, and compare decimal fractions.
- Use place value understanding and properties of operations to perform multi-digit arithmetic.
 Use the four operations with whole
- Use the four operations with whole numbers to solve problems.

Grade 5 Target Performance





Target

Apply and extend previous understandings of multiplication and division to

multiply and divide fractions.

Classify two–dimensional figures into

categories based on their properties.
Convert like measurement units within a

given measurement system.

Graph points on the coordinate plane

to solve real-world and mathematical problems.

Perform operations with multi-digit whole numbers and with decimals to hundredths.

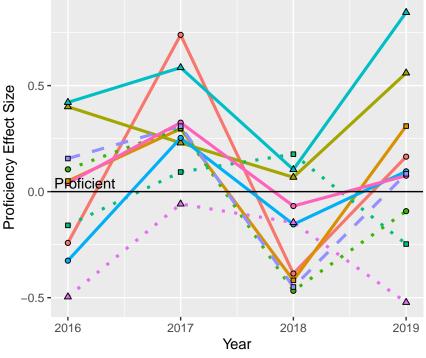
 Understand concepts of volume and relate volume to multiplication and to addition.

Understand the place value system.

Use equivalent fractions as a strategy to add and subtract fractions.

Write and interpret numerical expressions.

Grade 6 Target Performance

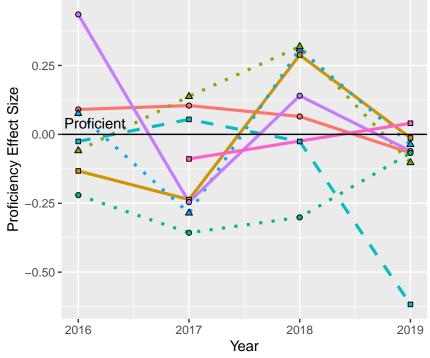


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- Apply and extend previous understandings of arithmetic to algebraic expressions. Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers. Compute fluently with multi-digit
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one-variable equations and inequalities. Represent and analyze quantitative
- relationships between dependent and independent variables. Solve real-world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance



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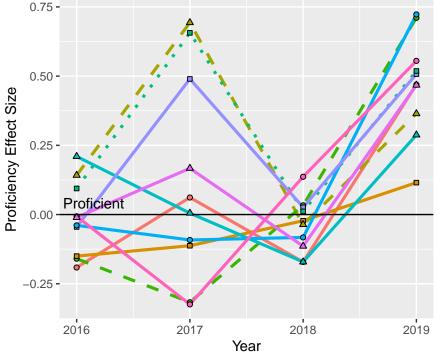
Target

- Analyze proportional relationships and use them to solve real–world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.
- Draw, construct and describe geometrical figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability
- models.

 Solve real–life and mathematical
- problems involving angle measure, area, surface area, and volume.
 Solve real-life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
- Use random sampling to draw inferences about a population.

SHERMAN SCHOOL DISTRICT

Grade 8 Target Performance



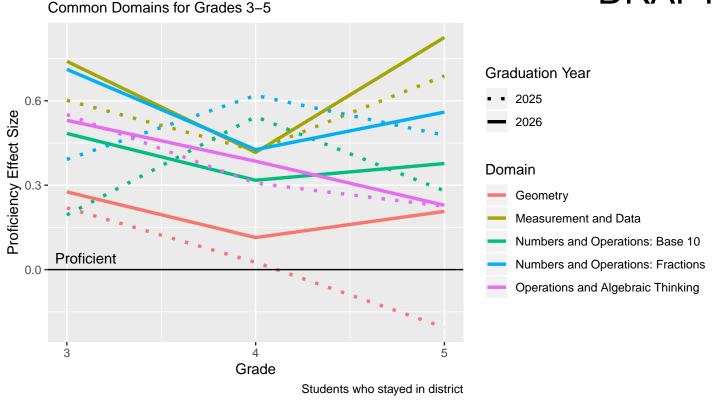
DRAFT

Target

- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real–world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
- Work with radicals and integer exponents.

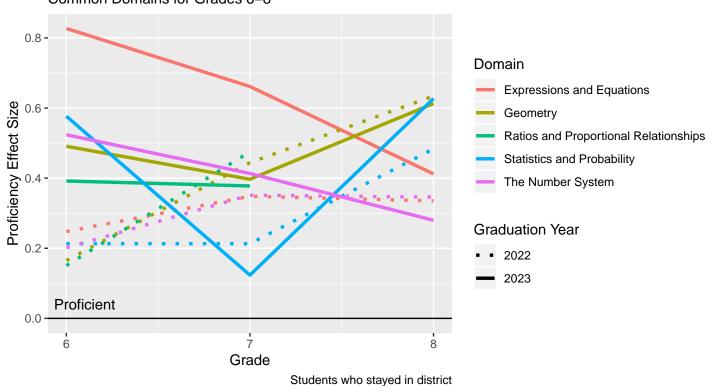
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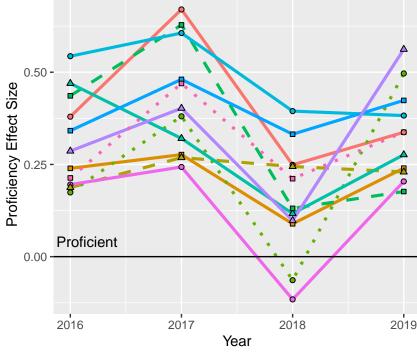


SIMSBURY SCHOOL DISTRICT Common Domains for Grades 6–8





Grade 3 Target Performance

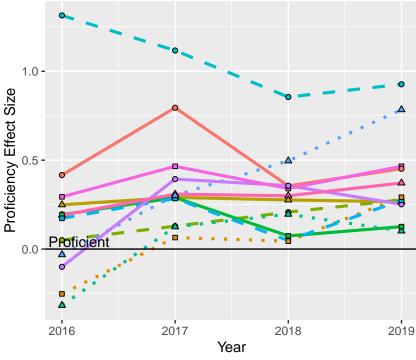


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- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
 - estimation of intervals of time, liquid
- volumes, and masses of objects. Solve problems involving the four
- operations, and identify and explain patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi-digit arithmetic.

Grade 4 Target Performance



solid = Major, dashed = Supporting, dotted = Additional

Target

DRAFT

Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.

Draw and identify lines and angles, and classify shapes by properties of their

lines and angles. Extend understanding of fraction equivalence and ordering. Gain familiarity with factors and

multiples.

Generalize place value understanding for multi-digit whole numbers.

Generate and analyze patterns.

Represent and interpret data.

Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

understand concepts of angle and measure angles. Understand decimal notation for

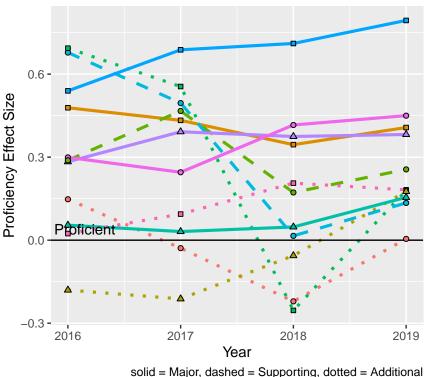
fractions, and compare decimal fractions.

Use place value understanding and properties of operations to perform multi-digit arithmetic.
Use the four operations with whole

numbers to solve problems.

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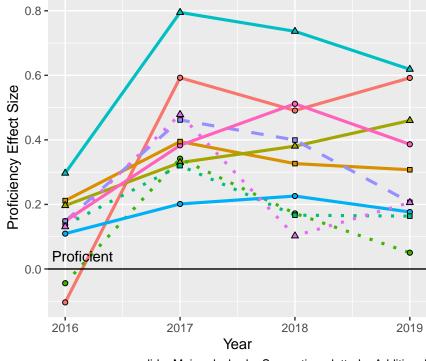
Grade 5 Target Performance



- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.

 Classify two–dimensional figures into
- categories based on their properties.
 Convert like measurement units within a
- given measurement system.
 Graph points on the coordinate plane
- to solve real–world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance

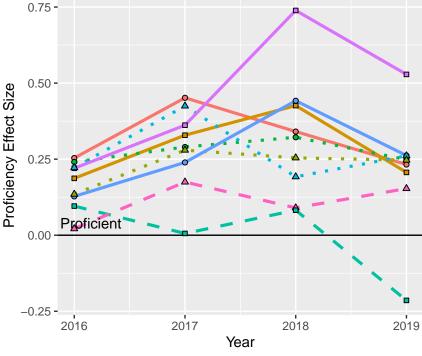


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- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi–digit
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one-variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real–world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance



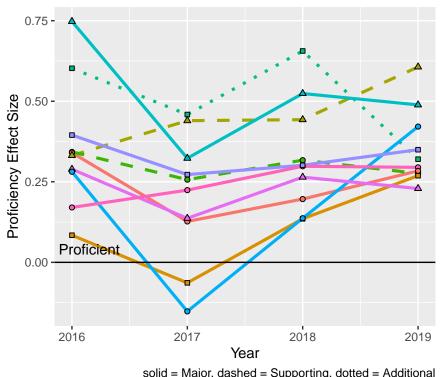
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- Analyze proportional relationships and use them to solve real-world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add,
- subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations. Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical problems involving angle measure, area,
- surface area, and volume. Solve real-life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- about a population.

Grade 8 Target Performance

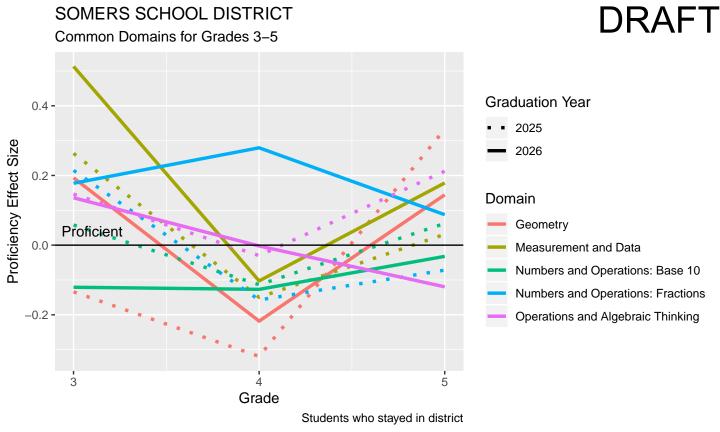


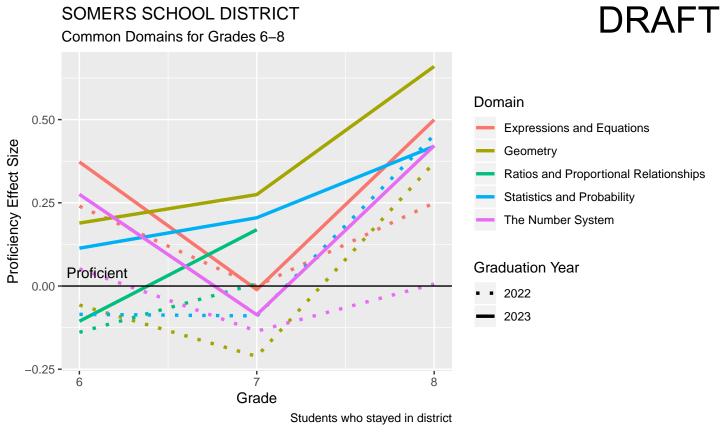


Target

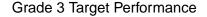
- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real—world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies,
- or geometry software.
 Understand the connections between proportional relationships, lines, and
- proportional relationships, lines, and linear equations.
 Use functions to model relationships
- between quantities.

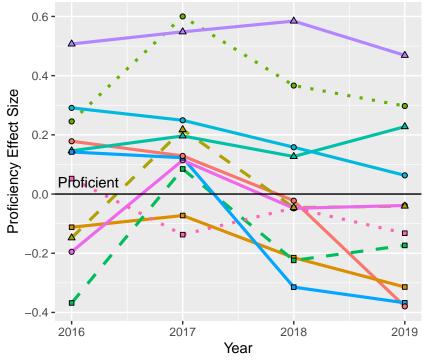
 Work with radicals and integer
- Work with radicals and integer exponents.





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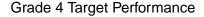


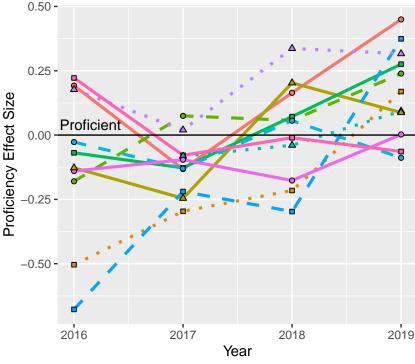


solid = Major, dashed = Supporting, dotted = Additional

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division.
- Solve problems involving measurement and estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four
 operations, and identify and explain
- patterns in arithmetic.
 Understand concepts of area and relate area to multiplication and to addition.
 Understand properties of multiplication
- and the relationship between multiplication and division.
 Use place value understanding and
- properties of arithmetic to perform multi-digit arithmetic.

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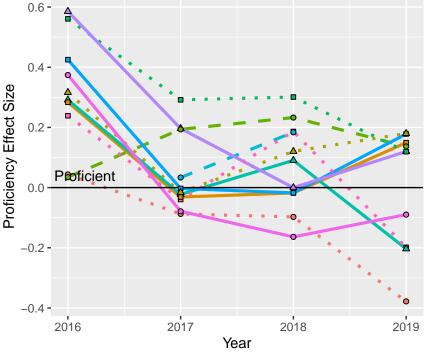
Target

- Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.
- Draw and identify lines and angles, and classify shapes by properties of their lines and angles.
- Extend understanding of fraction equivalence and ordering.
 Gain familiarity with factors and
- multiples.
 Generalize place value understanding for multi–digit whole numbers.
- Generate and analyze patterns.
 - Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.
- understand concepts of angle and measure angles.
- Understand decimal notation for fractions, and compare decimal fractions.
- Use place value understanding and properties of operations to perform multi-digit arithmetic.

 Use the four operations with whole
- Use the four operations with whole numbers to solve problems.

solid = Major, dashed = Supporting, dotted = Additional

Grade 5 Target Performance



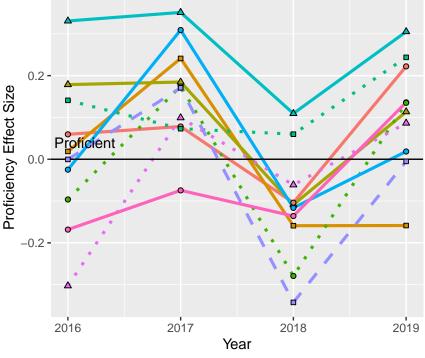
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- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two-dimensional figures into
- categories based on their properties.
 Convert like measurement units within a
- given measurement system.
 Graph points on the coordinate plane
- to solve real–world and mathematical problems.

 Perform operations with multi–digit
- whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance



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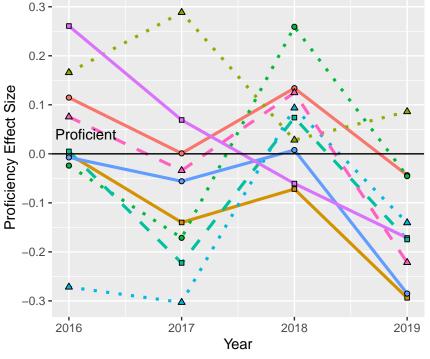
Target

numbers.

- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- Compute fluently with multi–digit numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one–variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real—world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

solid = Major, dashed = Supporting, dotted = Additional

Grade 7 Target Performance



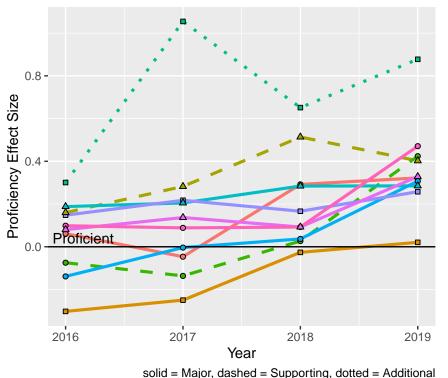
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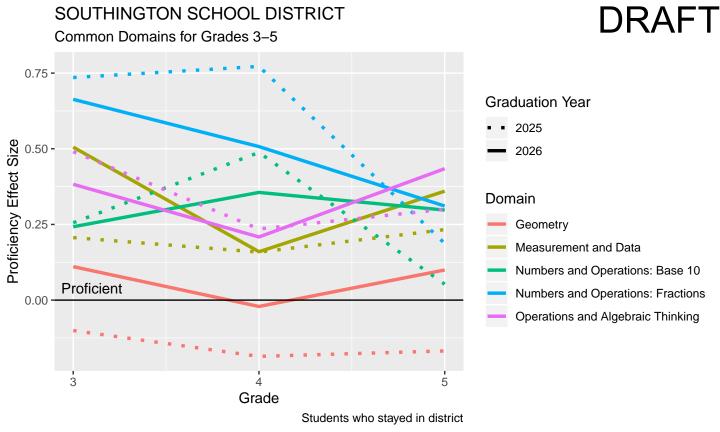
- Analyze proportional relationships and use them to solve real—world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add
- of operations with fractions to add, subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- • figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real–life and mathematical problems involving angle measure, area, surface area, and volume.
- Solve real-life and mathematical problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
- Use random sampling to draw inferences about a population.

Grade 8 Target Performance



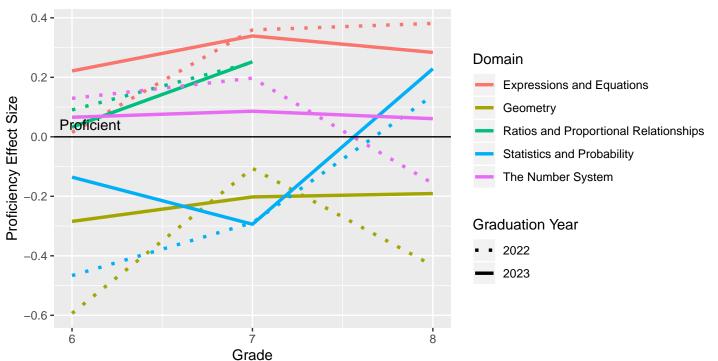


- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
 - Solve real—world and mathematical problems involving volume of cylinders, cones and spheres.
 - Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and integer exponents.



SOUTHINGTON SCHOOL DISTRICT Common Domains for Grades 6–8





Students who stayed in district

2017

Proficiency Effect Size

0.00 -

Proficient

2016

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Target

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
- Solve problems involving measurement and estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four
- operations, and identify and explain patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
 Use place value understanding and
- properties of arithmetic to perform multi–digit arithmetic.

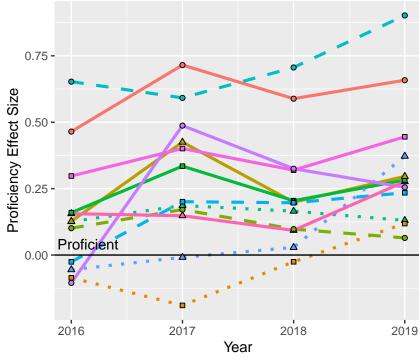
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Year

2018

2019

Grade 4 Target Performance



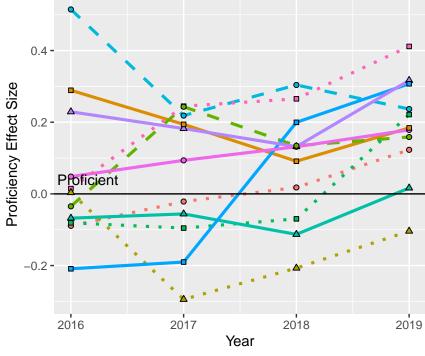
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Target

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- Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.
- Draw and identify lines and angles, and classify shapes by properties of their lines and angles.
- Extend understanding of fraction equivalence and ordering. Gain familiarity with factors and
- multiples.
- Generalize place value understanding for multi-digit whole numbers.
- Generate and analyze patterns.
- Represent and interpret data.
- Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.
- understand concepts of angle and measure angles. Understand decimal notation for
- fractions, and compare decimal fractions.
- Use place value understanding and properties of operations to perform multi-digit arithmetic.
 Use the four operations with whole
- numbers to solve problems.

Grade 5 Target Performance



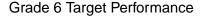
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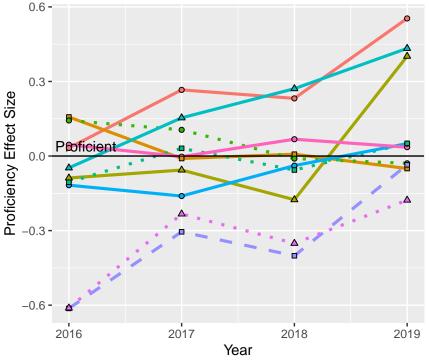
DRAFT

- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two–dimensional figures into
- categories based on their properties.
 Convert like measurement units within a
- given measurement system.

 Graph points on the coordinate plane
- to solve real–world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

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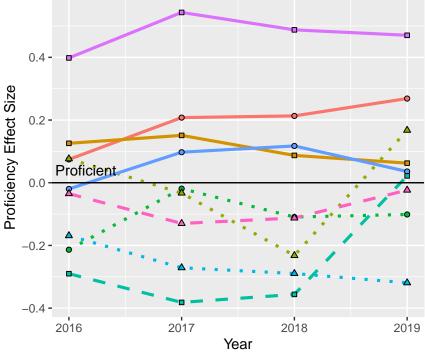




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- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi–digit
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one-variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real—world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance



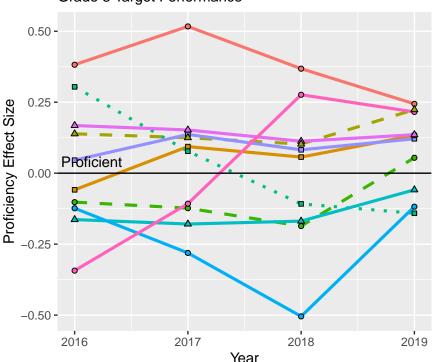
solid = Major, dashed = Supporting, dotted = Additional

DRAFT

- Analyze proportional relationships and use them to solve real-world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational
- numbers. Draw informal comparative inferences
- about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical problems involving angle measure, area, surface area, and volume.
- Solve real-life and mathematical problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate
- equivalent expressions.
 Use random sampling to draw inferences about a population.

Grade 8 Target Performance

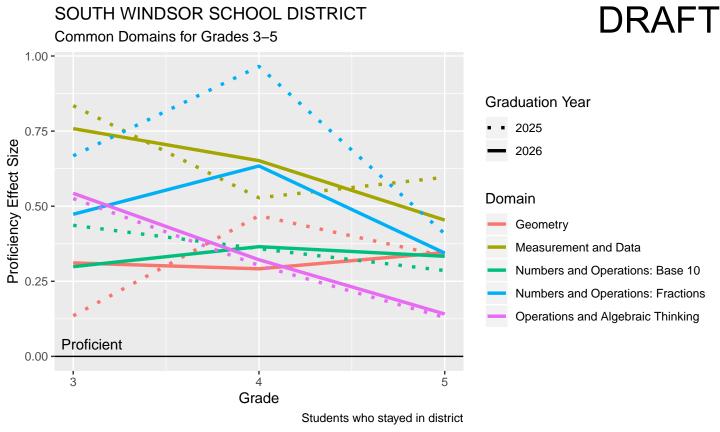
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Target

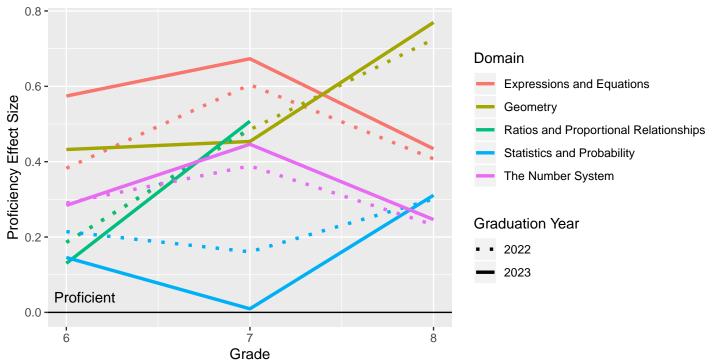
- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by
- rational numbers.
 Solve real–world and mathematical
 problems involving volume of cylinders,
- cones and spheres.
 Understand and apply the Pythagorean
- theorem.
 Understand congruence and similarity
 using physical models, transparencies,
- or geometry software.
 Understand the connections between
- proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and intege exponents.

solid = Major, dashed = Supporting, dotted = Additional



SOUTH WINDSOR SCHOOL DISTRICT Common Domains for Grades 6–8

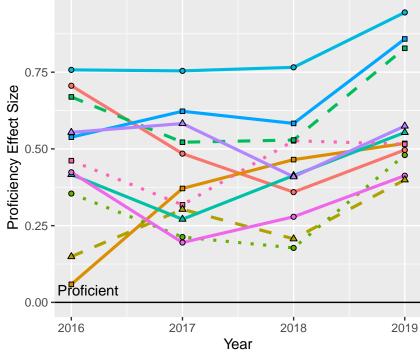




Students who stayed in district

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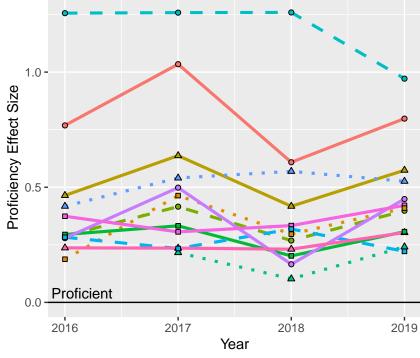




solid = Major, dashed = Supporting, dotted = Additional

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
- estimation of intervals of time, liquid
- volumes, and masses of objects. Solve problems involving the four
- operations, and identify and explain patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi-digit arithmetic.

Grade 4 Target Performance



solid = Major, dashed = Supporting, dotted = Additional

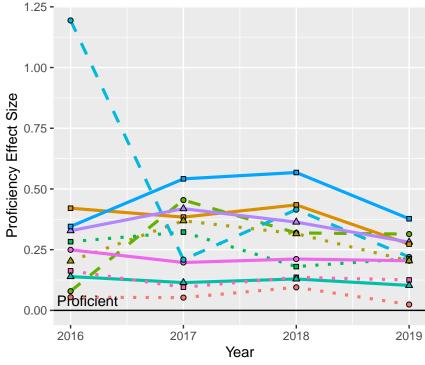
Target

DRAFT

- Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.
- Draw and identify lines and angles, and classify shapes by properties of their lines and angles.
- Extend understanding of fraction equivalence and ordering. Gain familiarity with factors and multiples.
- Generalize place value understanding for multi-digit whole numbers.
- Generate and analyze patterns.
- Represent and interpret data.
- Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.
- understand concepts of angle and measure angles. Understand decimal notation for
- fractions, and compare decimal fractions. Use place value understanding and
- properties of operations to perform multi-digit arithmetic.
 Use the four operations with whole
- numbers to solve problems.

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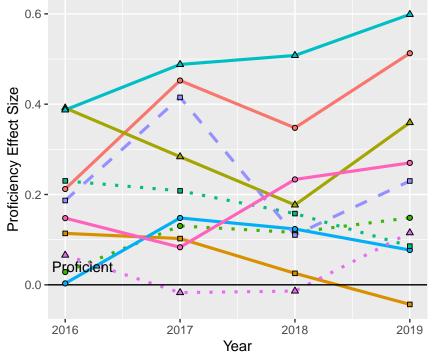


solid = Major, dashed = Supporting, dotted = Additional

- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two-dimensional figures into
- categories based on their properties.
 Convert like measurement units within a given measurement system.
- Graph points on the coordinate plane
- to solve real–world and mathematical problems.

 Perform operations with multi–digit
- whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance



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Target

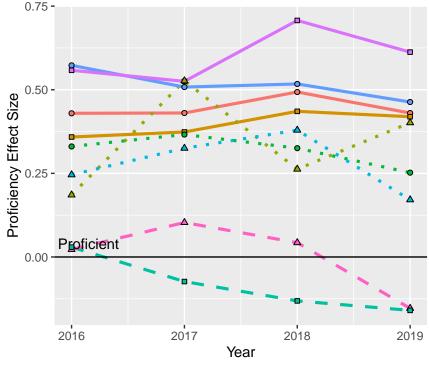
numbers.

- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- Compute fluently with multi-digit
 numbers and find common factors and
- multiples.

 Develop understanding of statistical variability.
- Reason about and solve one-variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real—world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

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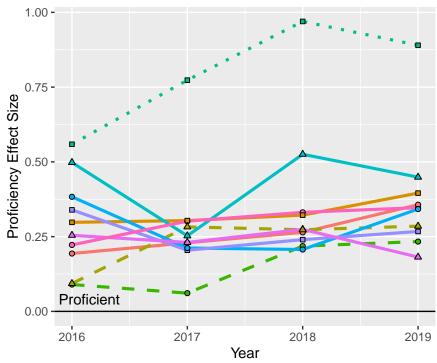




solid = Major, dashed = Supporting, dotted = Additional

- Analyze proportional relationships and use them to solve real—world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add,
- of operations with fractions to add, subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical
- problems involving angle measure, area, surface area, and volume.
 Solve real-life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- Use random sampling to draw inference about a population.

Grade 8 Target Performance



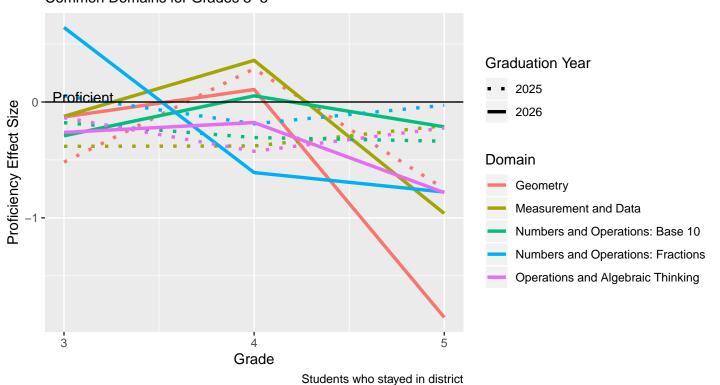
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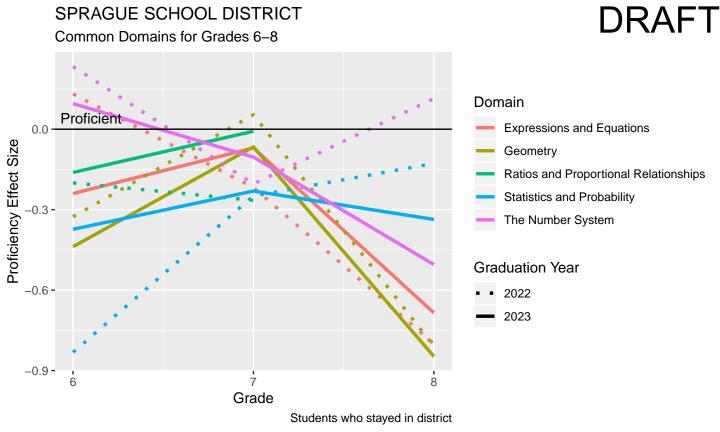
DRAFT

- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare
- functions.
 Investigate patterns of association in
- bivariate data.
 Know that there are numbers that are
- not rational, and approximate them by rational numbers.
- Solve real—world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and integer exponents.

SPRAGUE SCHOOL DISTRICT Common Domains for Grades 3–5

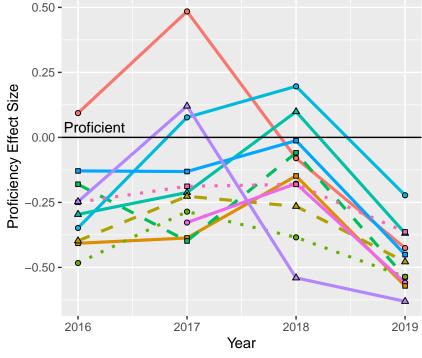






SPRAGUE SCHOOL DISTRICT





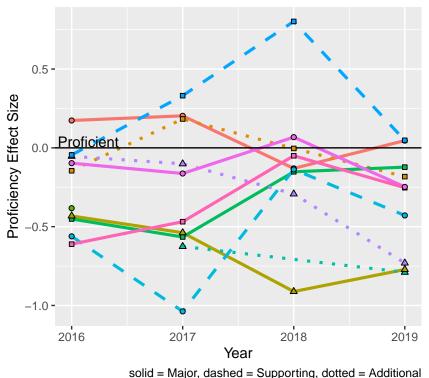
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DRAFT

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
 - estimation of intervals of time, liquid
- volumes, and masses of objects. Solve problems involving the four
- operations, and identify and explain patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division. Use place value understanding and
- properties of arithmetic to perform multi-digit arithmetic.

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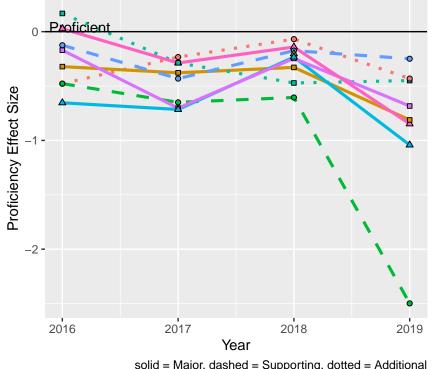
Grade 4 Target Performance



- Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.
- Draw and identify lines and angles, and classify shapes by properties of their lines and angles.
- Extend understanding of fraction equivalence and ordering.
 Gain familiarity with factors and
- multiples.
 Generalize place value understanding for multi-digit whole numbers.
- Generate and analyze patterns.
- Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.
 - understand concepts of angle and measure angles.
- Understand decimal notation for fractions, and compare decimal fractions.
- Use place value understanding and properties of operations to perform multi-digit arithmetic.
- Use the four operations with whole numbers to solve problems.

Grade 5 Target Performance





Target

Apply and extend previous understandings of multiplication and division to

multiply and divide fractions.
Classify two-dimensional figures into

categories based on their properties.
Convert like measurement units within a given measurement system.

Graph points on the coordinate plane to solve real–world and mathematical

to solve real–world and mathematical problems.

Perform operations with multi–digit whole numbers and with decimals to hundredths.

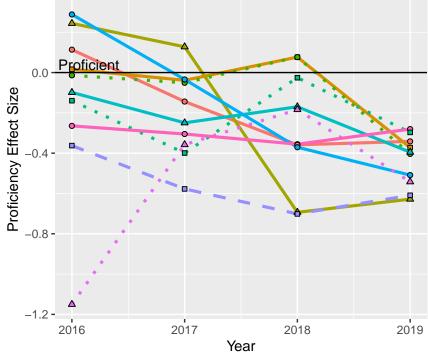
 Understand concepts of volume and relate volume to multiplication and to addition.

Understand the place value system.

Use equivalent fractions as a strategy to add and subtract fractions.

Write and interpret numerical expressions.

Grade 6 Target Performance



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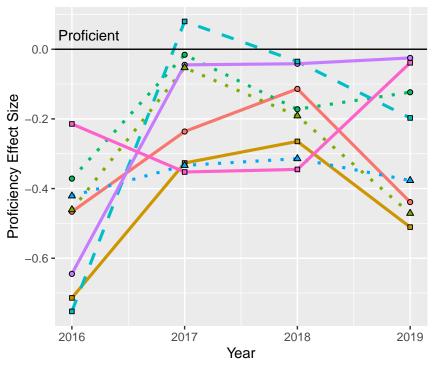
Target

- Apply and extend previous understandings of arithmetic to algebraic expressions. Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi–digit
 numbers and find common factors and
- numbers and find common factors and multiples.

 Develop understanding of statistical
- Develop understanding of statistical variability.
- Reason about and solve one-variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real-world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

solid = Major, dashed = Supporting, dotted = Additional

Grade 7 Target Performance

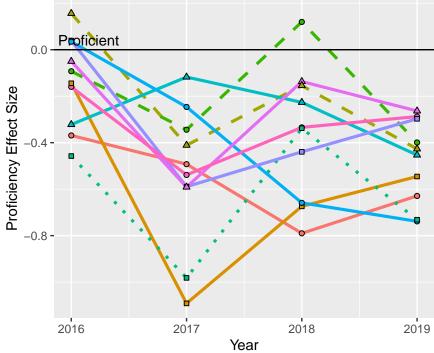


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- Analyze proportional relationships and use them to solve real–world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add,
- subtract, multiply, and divide rational numbers.
- Draw, construct and describe geometrical figures and describe the relationships between them.
- Investigate chance processes and
- develop, use, and evaluate probability models.
- Solve real-life and mathematical problems involving angle measure, area,
- surface area, and volume. Solve real-life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- Use random sampling to draw inference about a population.

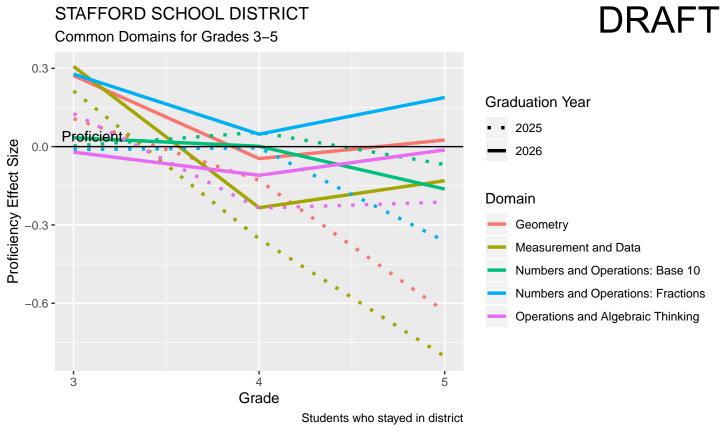
Grade 8 Target Performance



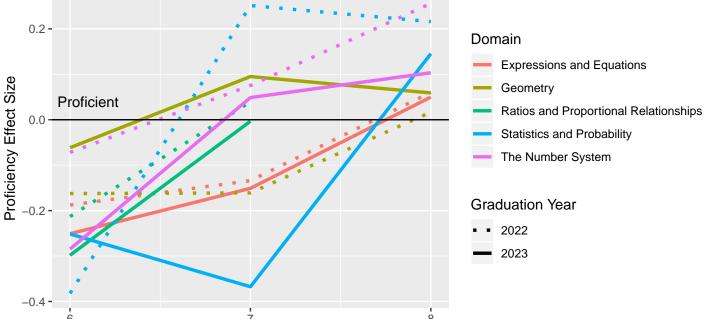
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DRAFT

- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real–world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and integer exponents.



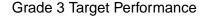
STAFFORD SCHOOL DISTRICT Common Domains for Grades 6–8 Domain

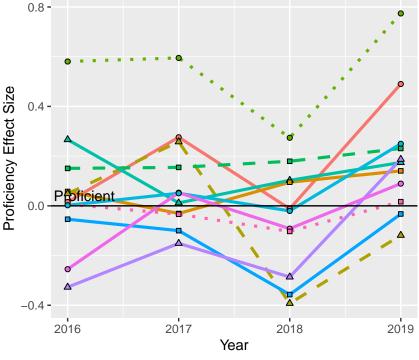


Students who stayed in district

Grade

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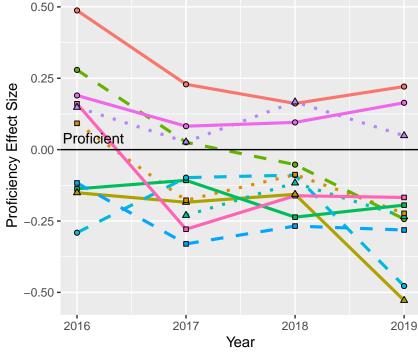


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- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
- solve problems involving measurement and
 estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four
 operations, and identify and explain
- patterns in arithmetic.
 Understand concepts of area and relate area to multiplication and to addition.
 Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi–digit arithmetic.

DRAFT





Target

Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.

 Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

Extend understanding of fraction equivalence and ordering.
Gain familiarity with factors and

multiples.
Generalize place value understanding for

multi–digit whole numbers.

• Generate and analyze patterns.

Colve problems involving mass

Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

understand concepts of angle and measure angles.

Understand decimal notation for fractions, and compare decimal fractions.

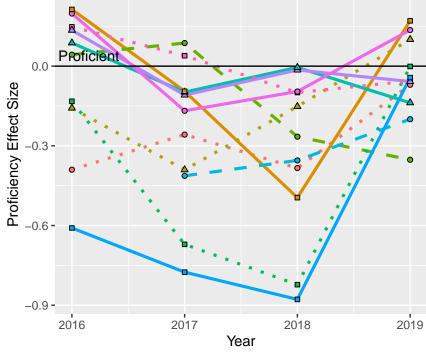
Use place value understanding and properties of operations to perform multi–digit arithmetic.

Use the four operations with whole

numbers to solve problems.

solid = Major, dashed = Supporting, dotted = Additional

Grade 5 Target Performance



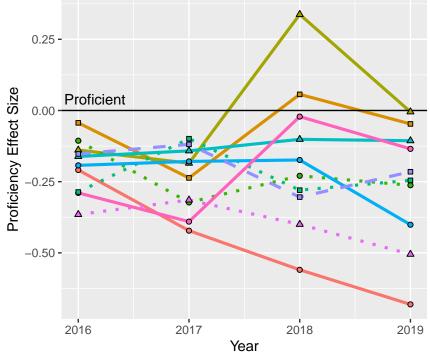
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DRAFT

- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two–dimensional figures into
- categories based on their properties.
 Convert like measurement units within a
- given measurement system.

 Graph points on the coordinate plane
- to solve real–world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance



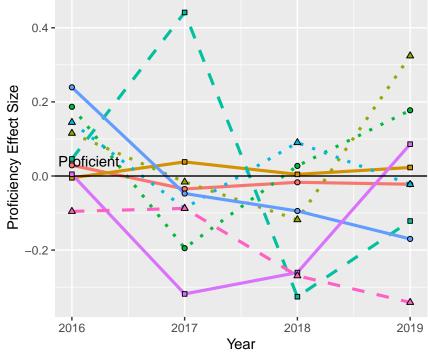
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Target

- Apply and extend previous understandings of arithmetic to algebraic expressions. Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi–digit
 numbers and find common factors and
- multiples.
 Develop understanding of statistical variability.
- Reason about and solve one-variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real–world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

solid = Major, dashed = Supporting, dotted = Additional

Grade 7 Target Performance



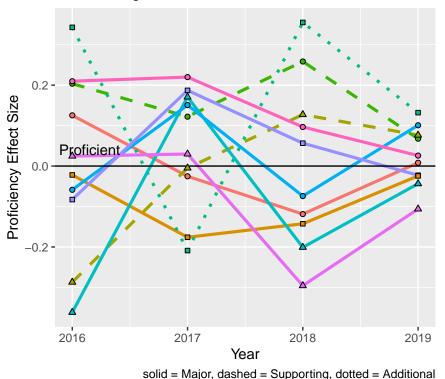
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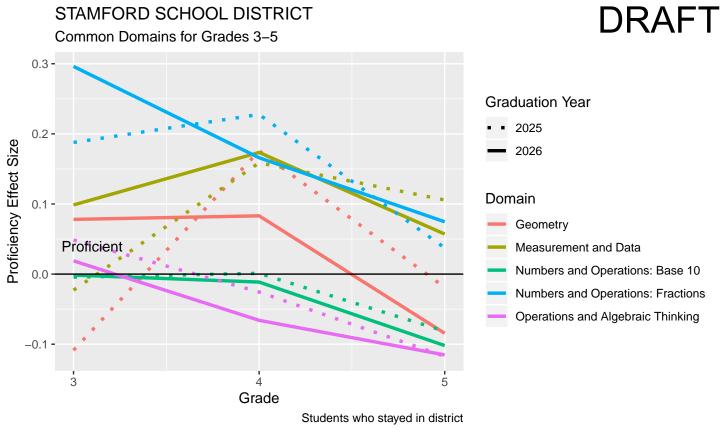
- Analyze proportional relationships and use them to solve real-world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add,
- subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical problems involving angle measure, area, surface area, and volume.
- Solve real-life and mathematical problems using numerical and algebraic
- expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- about a population.

Grade 8 Target Performance



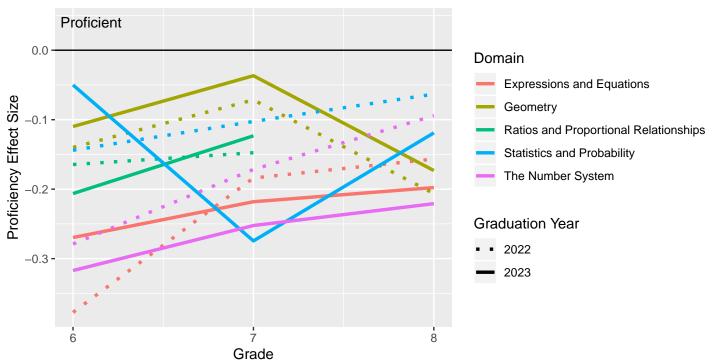


- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions: Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real—world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and integer exponents.



Common Domains for Grades 6-8

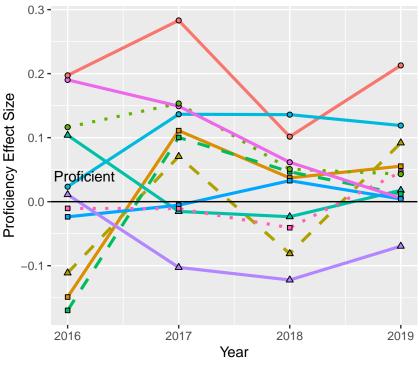




Students who stayed in district

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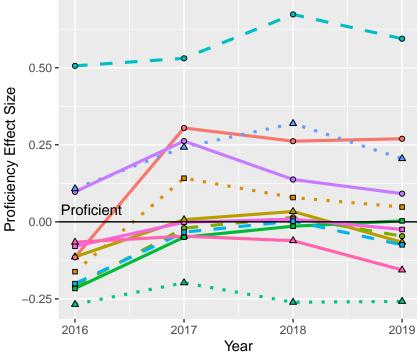




solid = Major, dashed = Supporting, dotted = Additional

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division.
 - multiplication and division.
 Solve problems involving measurement and
 estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four
- operations, and identify and explain patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition.
 Understand properties of multiplication
- and the relationship between multiplication and division.
 Use place value understanding and
- properties of arithmetic to perform multi–digit arithmetic.

Grade 4 Target Performance



solid = Major, dashed = Supporting, dotted = Additional

Target

DRAFT

Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.

Draw and identify lines and angles, and classify shapes by properties of their

lines and angles. Extend understanding of fraction equivalence and ordering. Gain familiarity with factors and

multiples.

Generalize place value understanding for multi-digit whole numbers.

Generate and analyze patterns.

Represent and interpret data.

Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

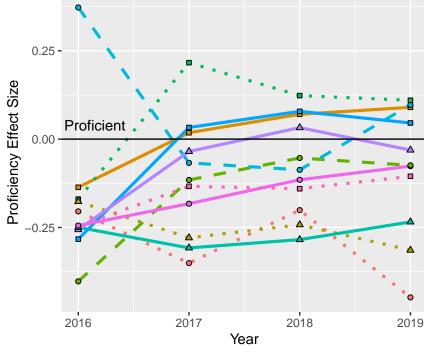
understand concepts of angle and measure angles. Understand decimal notation for

fractions, and compare decimal fractions.

Use place value understanding and properties of operations to perform multi-digit arithmetic.
Use the four operations with whole

numbers to solve problems.

Grade 5 Target Performance

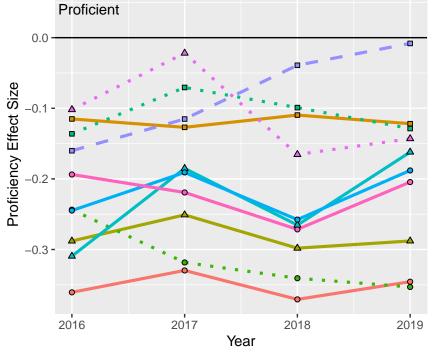


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- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two-dimensional figures into
- categories based on their properties.
 Convert like measurement units within a given measurement system.
- Graph points on the coordinate plane to solve real–world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance



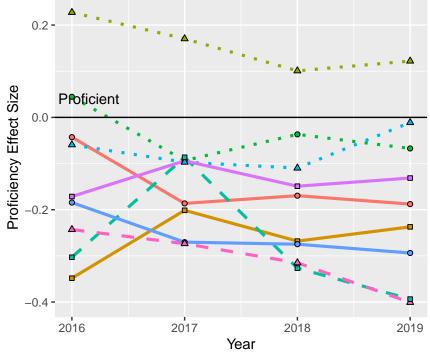
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DRAFT

- Apply and extend previous understandings of arithmetic to algebraic expressions.

 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi-digit
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one-variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real–world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance

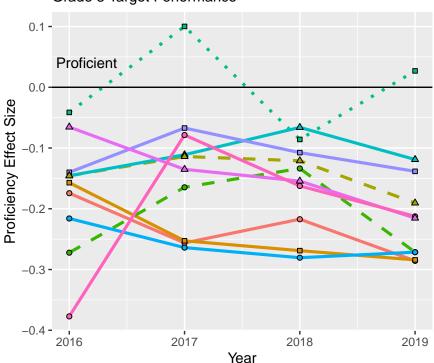


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DRAFT

- Analyze proportional relationships
 and use them to solve real—world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add,
- of operations with fractions to add, subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- • figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real–life and mathematical problems involving angle measure, area, surface area, and volume.
- Solve real–life and mathematical problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
- Use random sampling to draw inferences about a population.

Grade 8 Target Performance

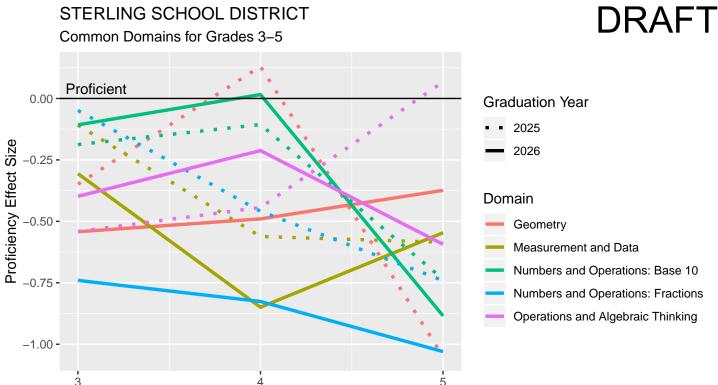


DRAFT

Target

- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real—world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and integer exponents.

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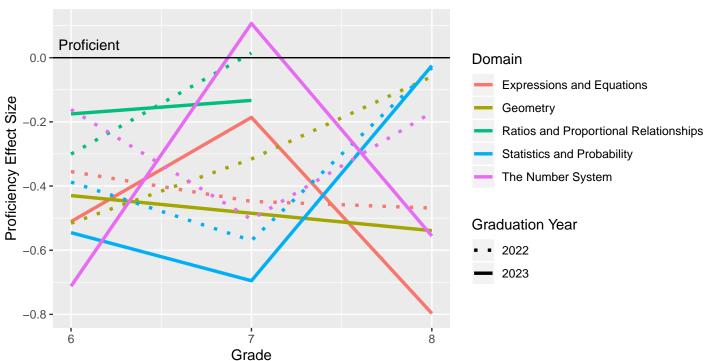


Students who stayed in district

Grade

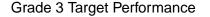
STERLING SCHOOL DISTRICT Common Domains for Grades 6–8

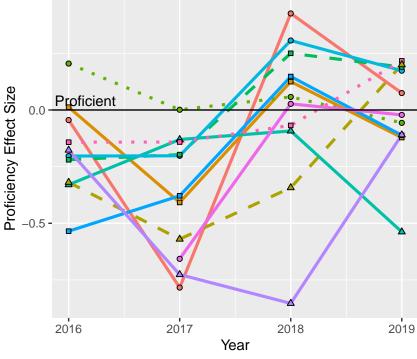




Students who stayed in district

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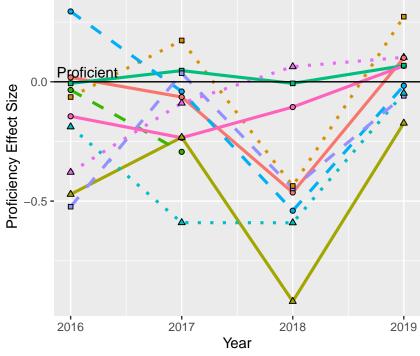




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- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- A Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division.
 Solve problems involving measurement and
- Solve problems involving measurement and estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four
- operations, and identify and explain patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi–digit arithmetic.

Grade 4 Target Performance

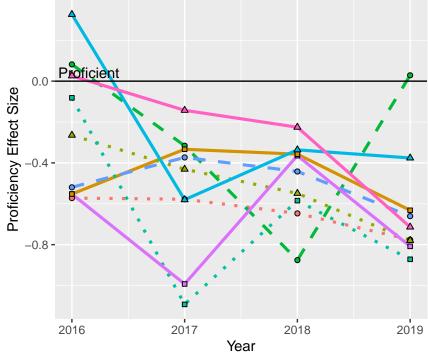


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DRAFT

- Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.
- Draw and identify lines and angles, and classify shapes by properties of their lines and angles.
- Extend understanding of fraction equivalence and ordering. Gain familiarity with factors and
- multiples. Generalize place value understanding for
- multi-digit whole numbers. Solve problems involving measurement and
- conversion of measurements from a larger unit to a smaller unit. understand concepts of angle and measure
- angles. Understand decimal notation for
- fractions, and compare decimal fractions.
- Use place value understanding and properties of operations to perform multi-digit arithmetic.
 Use the four operations with whole
- numbers to solve problems.

Grade 5 Target Performance



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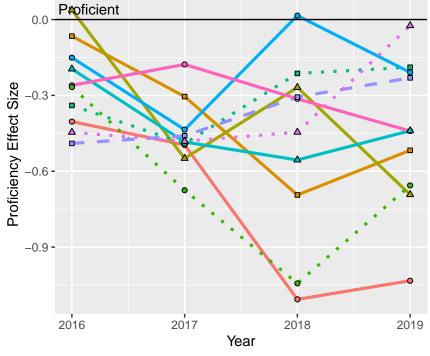
DRAFT

- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.

 Classify two–dimensional figures into
- categories based on their properties.
 Convert like measurement units within a
- given measurement system.

 Graph points on the coordinate plane
- to solve real-world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance

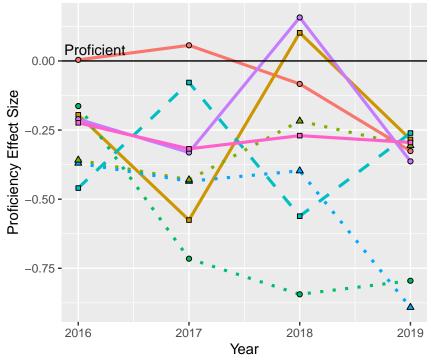


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DRAFT

- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi–digit
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one-variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real–world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance



Target

 Analyze proportional relationships and use them to solve real–world and mathematical problems.

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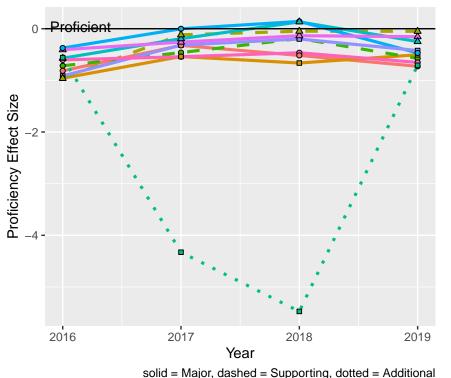
- Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational
- numbers.
 Draw, construct and describe geometrical figures and describe the relationships
- between them.
 Investigate chance processes and
 develop, use, and evaluate probability
- develop, use, and evaluate probability models.

 Solve real–life and mathematical
- problems involving angle measure, area, surface area, and volume.
- Solve real-life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
- Use random sampling to draw inferences about a population.

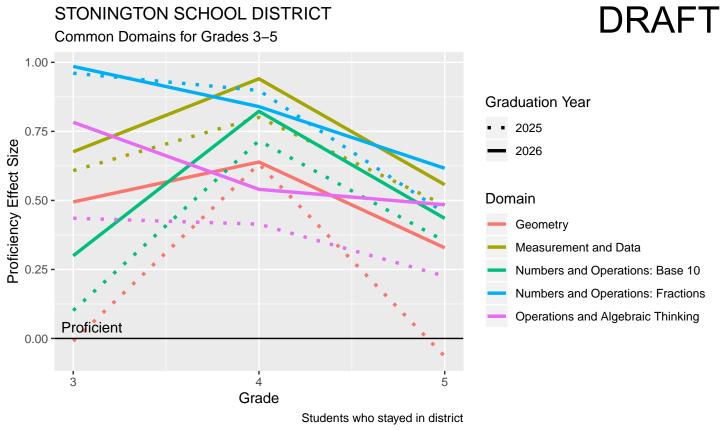
solid = Major, dashed = Supporting, dotted = Additional

Grade 8 Target Performance





- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real—world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and integer exponents.



DRAFT STONINGTON SCHOOL DISTRICT Common Domains for Grades 6-8 0.4 -Domain **Expressions and Equations** 0.2 -Geometry Ratios and Proportional Relationships Proficient Statistics and Probability 0.0 The Number System **Graduation Year** -0.2 **-**2022 2023

Proficiency Effect Size

-0.4 **-**

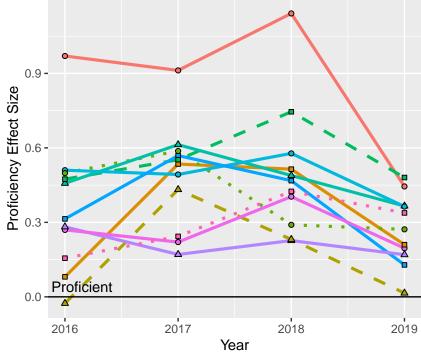
6

Students who stayed in district

Grade

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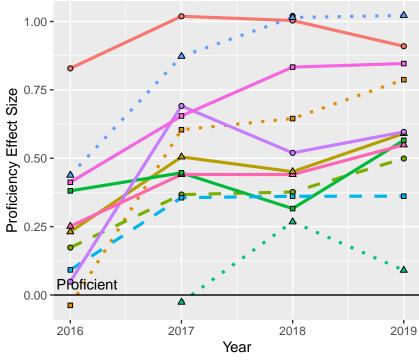




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- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division.
 Solve problems involving measurement and
 - Solve problems involving measurement and estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four
 operations, and identify and explain
- patterns in arithmetic.
 Understand concepts of area and relate area to multiplication and to addition.
 Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi-digit arithmetic.

Grade 4 Target Performance



solid = Major, dashed = Supporting, dotted = Additional

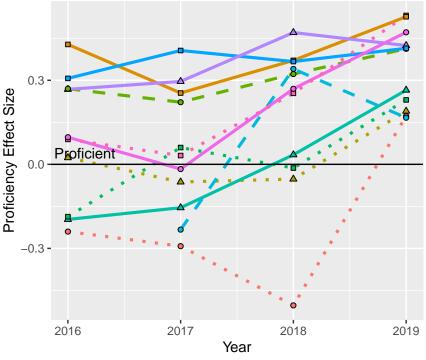
Target

DRAFT

- Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.
- Draw and identify lines and angles, and classify shapes by properties of their lines and angles.
- Extend understanding of fraction equivalence and ordering. Gain familiarity with factors and
- multiples. Generalize place value understanding for
- multi-digit whole numbers.
- Generate and analyze patterns.
- Represent and interpret data.
- Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.
- understand concepts of angle and measure angles. Understand decimal notation for
- fractions, and compare decimal fractions.
- Use place value understanding and properties of operations to perform multi-digit arithmetic.
 Use the four operations with whole
- numbers to solve problems.

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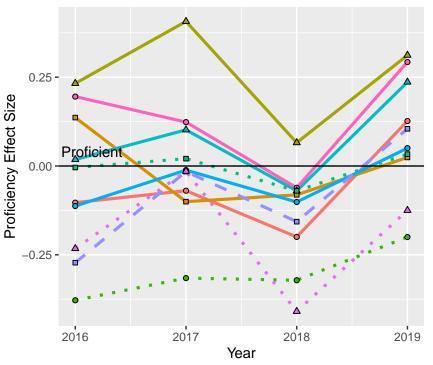
Grade 5 Target Performance



solid = Major, dashed = Supporting, dotted = Additional

- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two–dimensional figures into
- categories based on their properties.
 Convert like measurement units within a
- given measurement system.
 Graph points on the coordinate plane
- to solve real–world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance



solid = Major, dashed = Supporting, dotted = Additional

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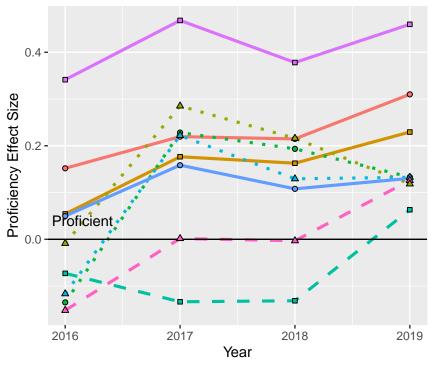
- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi–digit
 numbers and find common factors and
- multiples.

 Develop understanding of statistical
- variability.

 Reason about and solve one–variable
- equations and inequalities.

 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real–world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance



solid = Major, dashed = Supporting, dotted = Additional

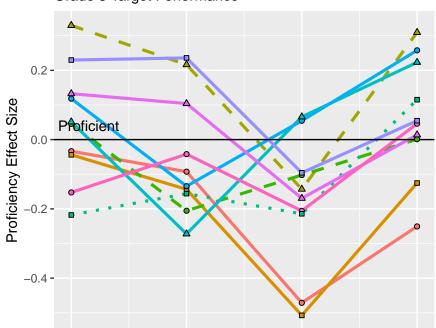
DRAFT

- Analyze proportional relationships and use them to solve real-world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add,
- subtract, multiply, and divide rational numbers. Draw informal comparative inferences
- about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical problems involving angle measure, area,
- surface area, and volume. Solve real-life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- about a population.

STONINGTON SCHOOL DISTRICT

Grade 8 Target Performance

2016



2017

solid = Major, dashed = Supporting, dotted = Additional

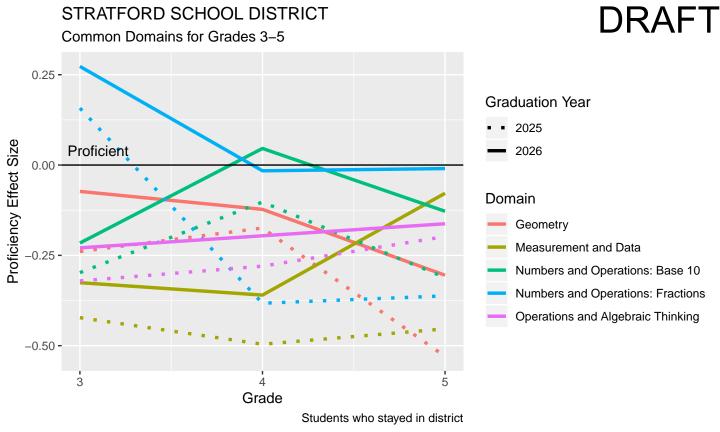
Year

2018

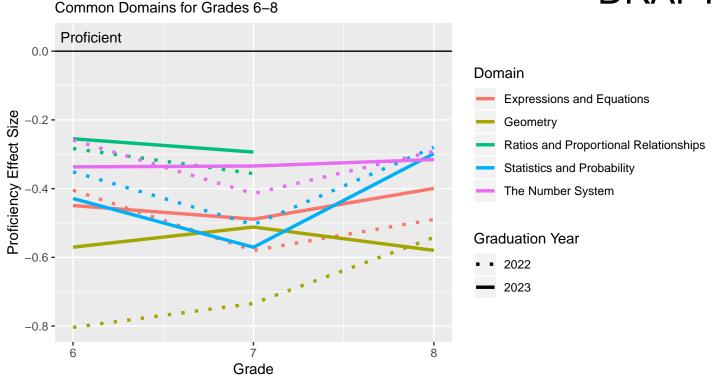
2019

DRAFT

- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
 - Know that there are numbers that are not rational, and approximate them by rational numbers.
 - Solve real-world and mathematical problems involving volume of cylinders, cones and spheres.
 - Understand and apply the Pythagorean theorem.
 - Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and intege exponents.



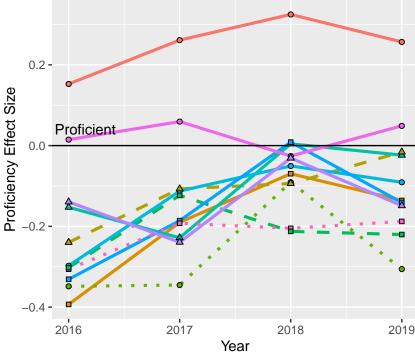




Students who stayed in district

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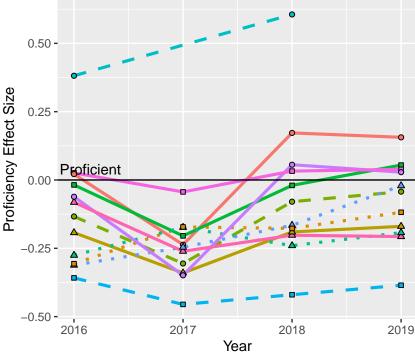




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- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- A Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
- Solve problems involving measurement and estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four
- operations, and identify and explain patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi–digit arithmetic.

Grade 4 Target Performance



solid = Major, dashed = Supporting, dotted = Additional

Target

DRAFT

Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.

Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

Extend understanding of fraction equivalence and ordering. Gain familiarity with factors and

multiples.

Generalize place value understanding for multi-digit whole numbers.

Generate and analyze patterns.

Represent and interpret data.

Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

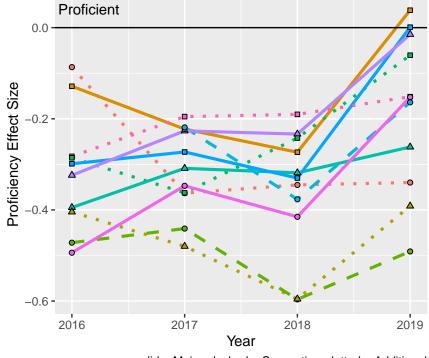
understand concepts of angle and measure angles. Understand decimal notation for

fractions, and compare decimal fractions.

Use place value understanding and properties of operations to perform multi-digit arithmetic.
Use the four operations with whole

numbers to solve problems.

Grade 5 Target Performance



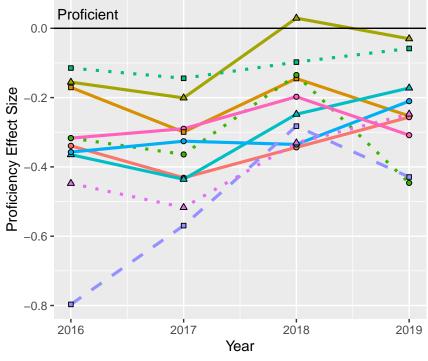
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DRAFT

- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two–dimensional figures into
- categories based on their properties.
 Convert like measurement units within a
- given measurement system.

 Graph points on the coordinate plane
- to solve real–world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance



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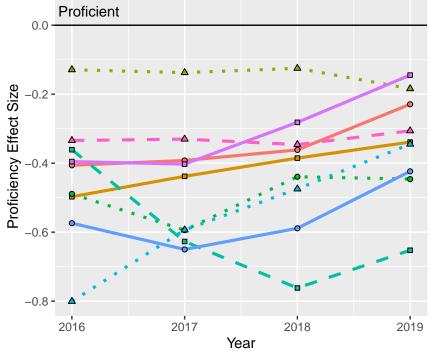
Target

numbers.

- Apply and extend previous understandings of arithmetic to algebraic expressions.

 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- Compute fluently with multi-digit numbers and find common factors and
- multiples.
 Develop understanding of statistical variability.
- Reason about and solve one–variable equations and inequalities. Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real–world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance



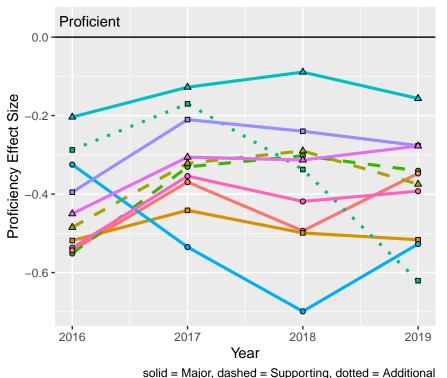
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DRAFT

- Analyze proportional relationships
 and use them to solve real—world and mathematical problems.
 - Apply and extend previous understandings of operations with fractions to add,
- of operations with fractions to add, subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical
- problems involving angle measure, area, surface area, and volume. Solve real-life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- Use random sampling to draw inferences about a population.

Grade 8 Target Performance





Target

- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real–world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and intege exponents.

DRAFT SUFFIELD SCHOOL DISTRICT Common Domains for Grades 3-5 **Graduation Year** 2025 0.2 -2026 Domain Proficient Geometry 0.0 Measurement and Data Numbers and Operations: Base 10 Numbers and Operations: Fractions Operations and Algebraic Thinking

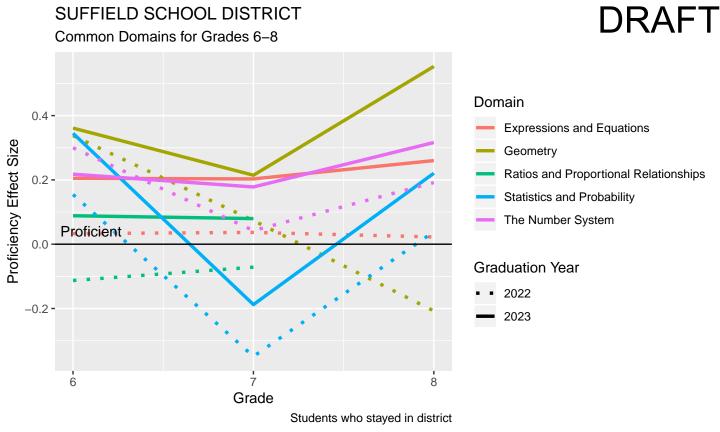
Proficiency Effect Size

-0.2 **-**

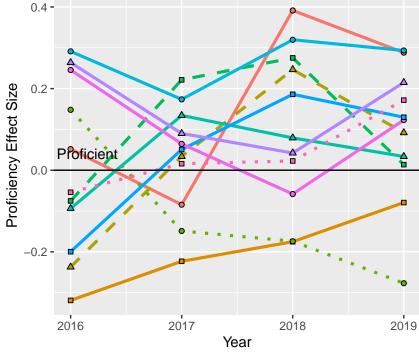
3

Students who stayed in district

Grade







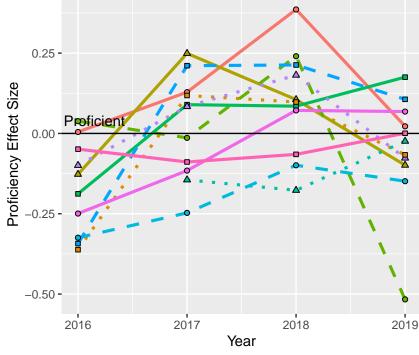
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DRAFT

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
- estimation of intervals of time, liquid
- volumes, and masses of objects. Solve problems involving the four
- operations, and identify and explain patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division. Use place value understanding and
- properties of arithmetic to perform multi-digit arithmetic.

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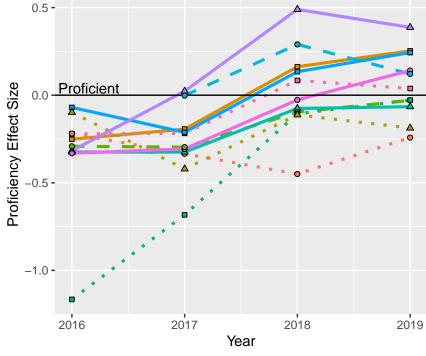




Target

- Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.
- Draw and identify lines and angles, and classify shapes by properties of their lines and angles.
- Extend understanding of fraction equivalence and ordering.
 Gain familiarity with factors and
- multiples.
 Generalize place value understanding for multi–digit whole numbers.
- Generate and analyze patterns.
- Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.
- understand concepts of angle and measure angles.
- Understand decimal notation for fractions, and compare decimal fractions.
- Use place value understanding and properties of operations to perform multi-digit arithmetic.
- Use the four operations with whole numbers to solve problems.

Grade 5 Target Performance



Target

Analyze patterns and relationships.

Apply and extend previous understandings

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of multiplication and division to multiply and divide fractions.

Classify two–dimensional figures into categories based on their properties.

Convert like measurement units within a given measurement system.

Graph points on the coordinate plane

to solve real-world and mathematical problems.

Perform operations with multi–digit whole numbers and with decimals to hundredths.

Represent and interpret data.

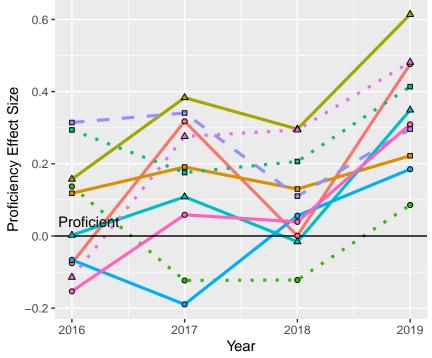
 Understand concepts of volume and relate volume to multiplication and to addition.

Understand the place value system.

Use equivalent fractions as a strategy to add and subtract fractions.

Write and interpret numerical expressions.

Grade 6 Target Performance



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Target

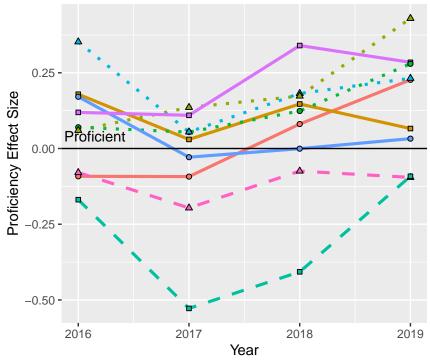
numbers.

- Apply and extend previous understandings of arithmetic to algebraic expressions. Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- Compute fluently with multi-digit
 numbers and find common factors and
- multiples.

 Develop understanding of statistical variability.
- Reason about and solve one–variable equations and inequalities.
- equations and inequalities.
 Represent and analyze quantitative
 relationships between dependent and
- relationships between dependent and independent variables.

 Solve real–world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance



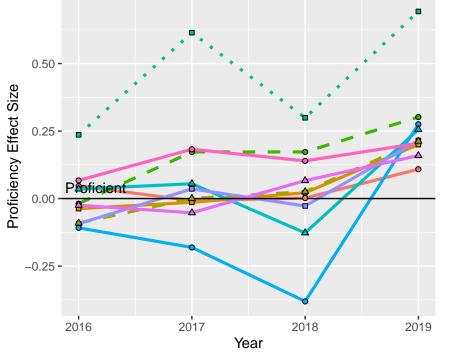
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DRAFT

- Analyze proportional relationships and use them to solve real-world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add,
- subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical problems involving angle measure, area,
- surface area, and volume. Solve real-life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- about a population.

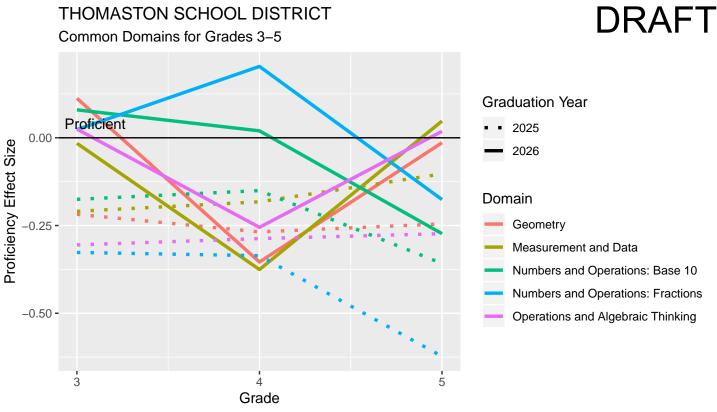
Grade 8 Target Performance



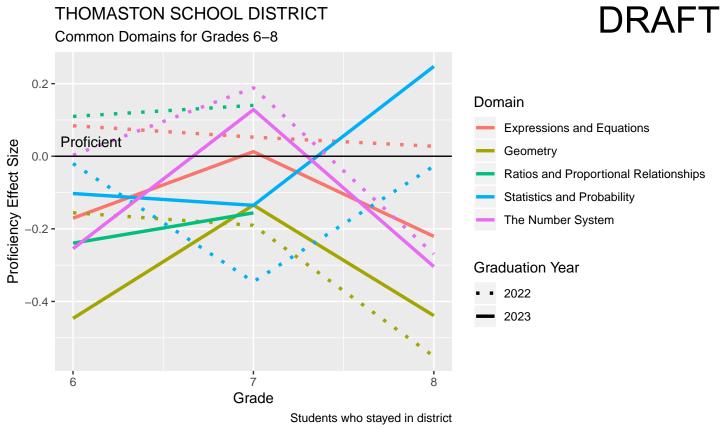


Target

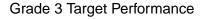
- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions: Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real-world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities. Work with radicals and integer
- exponents.

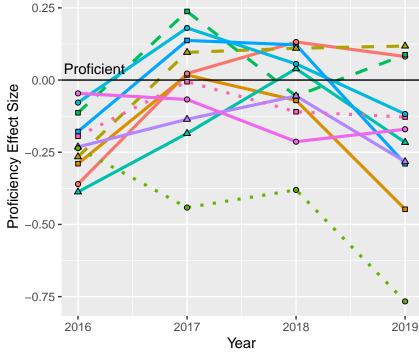


Students who stayed in district



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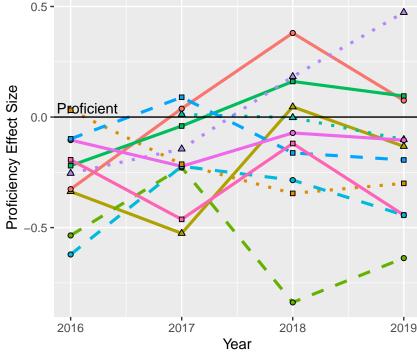




Target

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division.
- Solve problems involving measurement and estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four
 operations, and identify and explain
- patterns in arithmetic.
 Understand concepts of area and relate area to multiplication and to addition.
 Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi–digit arithmetic.

Grade 4 Target Performance



solid = Major, dashed = Supporting, dotted = Additional

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Target

Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.

 Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

Extend understanding of fraction equivalence and ordering.
Gain familiarity with factors and

multiples.
Generalize place value understanding for multi–digit whole numbers.

Generate and analyze patterns.

 Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

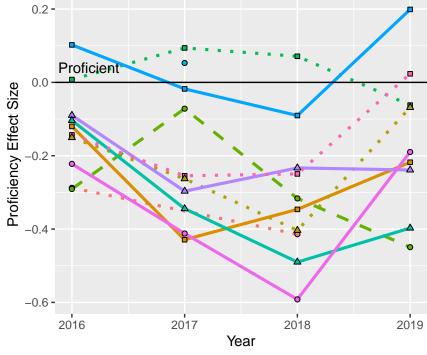
understand concepts of angle and measure angles.

Understand decimal notation for fractions, and compare decimal fractions.

Use place value understanding and properties of operations to perform multi-digit arithmetic.

Use the four operations with whole numbers to solve problems.

Grade 5 Target Performance



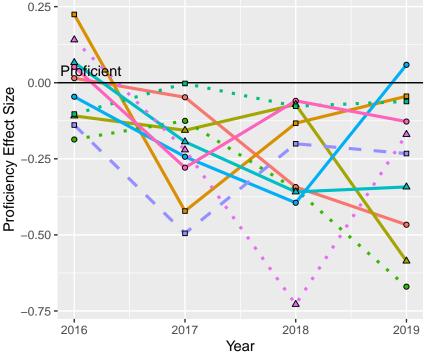
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DRAFT

- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two–dimensional figures into
- categories based on their properties.
 Convert like measurement units within a
- given measurement system.

 Graph points on the coordinate plane
- to solve real–world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance

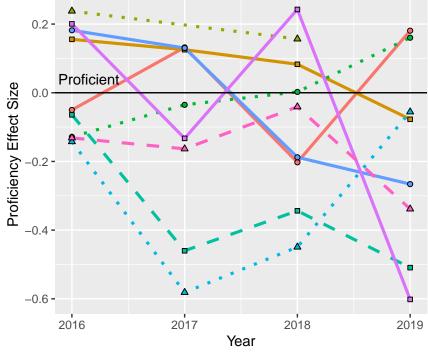


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Target

- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi-digit
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one–variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real–world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance



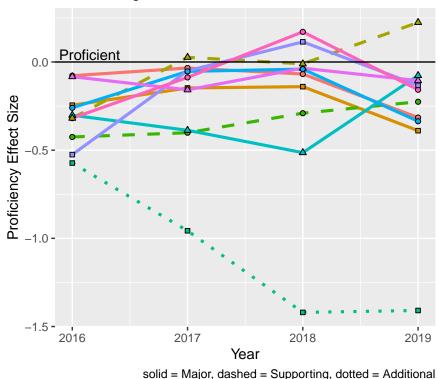
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DRAFT

- Analyze proportional relationships and use them to solve real–world and mathematical problems.
 - Apply and extend previous understandings of operations with fractions to add,
- of operations with fractions to add, subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- • figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real–life and mathematical problems involving angle measure, area, surface area, and volume.
- Solve real–life and mathematical problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- Use random sampling to draw inferences about a population.

Grade 8 Target Performance





- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
 - Solve real—world and mathematical problems involving volume of cylinders, cones and spheres.
 - Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies,
- or geometry software.
 Understand the connections between proportional relationships, lines, and
- linear equations.
 Use functions to model relationships between quantities.
- between quantities.
 Work with radicals and integer exponents.

DRAFT THOMPSON SCHOOL DISTRICT Common Domains for Grades 3-5 **Graduation Year** 2025 Proficient 2026 Domain Geometry Measurement and Data -0.5 **-**Numbers and Operations: Base 10 Numbers and Operations: Fractions Operations and Algebraic Thinking

Proficiency Effect Size

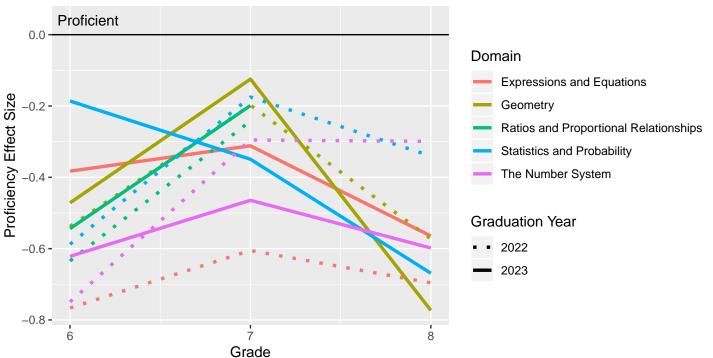
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Students who stayed in district

Grade

THOMPSON SCHOOL DISTRICT Common Domains for Grades 6-8

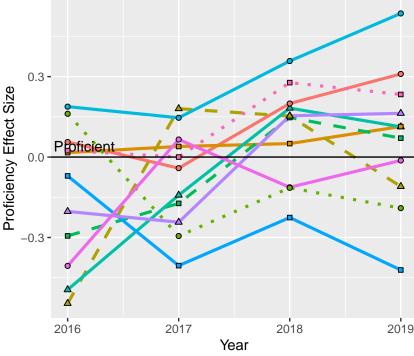




Students who stayed in district

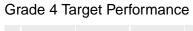
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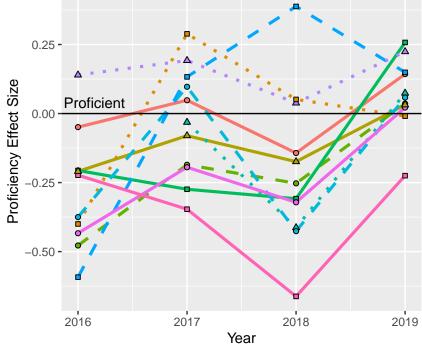




solid = Major, dashed = Supporting, dotted = Additional

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
- estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four operations, and identify and explain patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi-digit arithmetic.



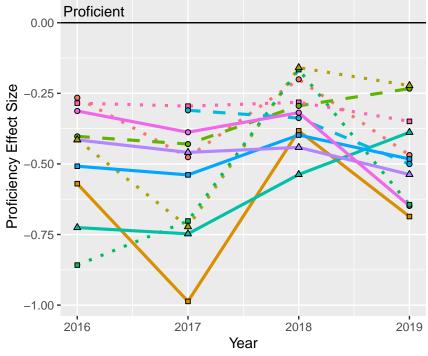


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- Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.
- Draw and identify lines and angles, and classify shapes by properties of their lines and angles.
- Extend understanding of fraction equivalence and ordering. Gain familiarity with factors and
- multiples. Generalize place value understanding for
- multi-digit whole numbers. Generate and analyze patterns.
- Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.
- understand concepts of angle and measure angles.
- Understand decimal notation for fractions, and compare decimal fractions.
- Use place value understanding and properties of operations to perform multi-digit arithmetic.
- Use the four operations with whole numbers to solve problems.

Grade 5 Target Performance

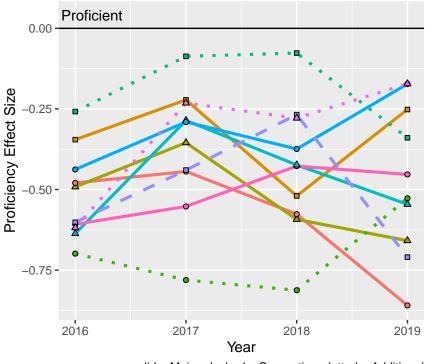


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DRAFT

- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two-dimensional figures into
- categories based on their properties.
 Convert like measurement units within a
- given measurement system.
 Graph points on the coordinate plane
- to solve real–world and mathematical problems.
- Perform operations with multi–digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance

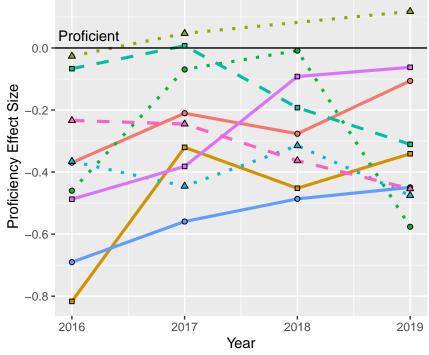


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Target

- Apply and extend previous understandings of arithmetic to algebraic expressions. Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi-digit
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one–variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real—world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance



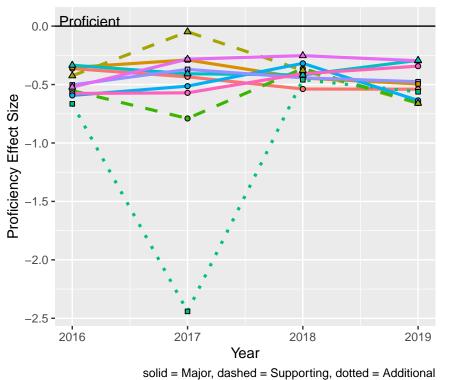
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DRAFT

- Analyze proportional relationships and use them to solve real-world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add,
- subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
 - Solve real-life and mathematical problems involving angle measure, area, surface area, and volume.
- Solve real-life and mathematical problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- about a population.

Grade 8 Target Performance





- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real—world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and integer exponents.

TOLLAND SCHOOL DISTRICT DRAFT Common Domains for Grades 3-5 **Graduation Year** Proficiency Effect Size 2025 2026 Domain Geometry Measurement and Data Numbers and Operations: Base 10 Proficient Numbers and Operations: Fractions 0.00 Operations and Algebraic Thinking

Students who stayed in district

Grade

3

DRAFT TOLLAND SCHOOL DISTRICT Common Domains for Grades 6-8 0.6 -Domain 0.4 -**Expressions and Equations** Geometry Ratios and Proportional Relationships 0.2 -Statistics and Probability The Number System **Proficient** 0.0 **Graduation Year** 2022 -0.2 **-**2023 6

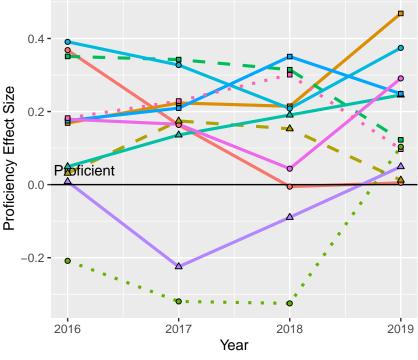
Proficiency Effect Size

Students who stayed in district

Grade

TOLLAND SCHOOL DISTRICT

Grade 3 Target Performance

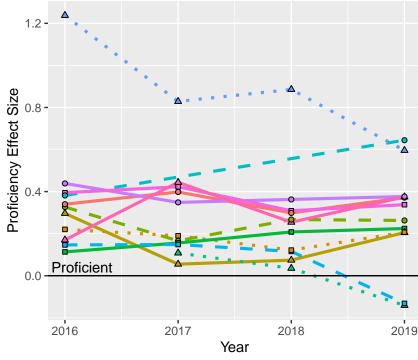


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DRAFT

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
- estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four
- operations, and identify and explain patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition.
 Understand properties of multiplication
- and the relationship between multiplication and division.
 Use place value understanding and
- properties of arithmetic to perform multi–digit arithmetic.

Grade 4 Target Performance



solid = Major, dashed = Supporting, dotted = Additional

Target

DRAFT

Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.

Draw and identify lines and angles, and classify shapes by properties of their

lines and angles. Extend understanding of fraction equivalence and ordering. Gain familiarity with factors and

multiples.

Generalize place value understanding for multi-digit whole numbers.

Generate and analyze patterns.

Represent and interpret data.

Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

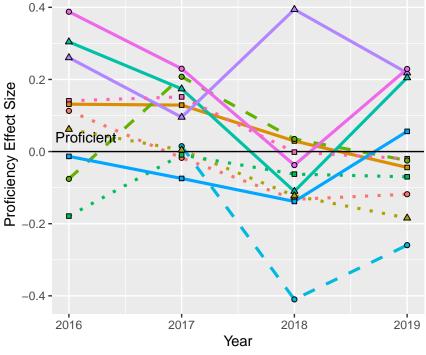
understand concepts of angle and measure angles. Understand decimal notation for

fractions, and compare decimal fractions. Use place value understanding and

properties of operations to perform multi-digit arithmetic.
Use the four operations with whole

numbers to solve problems.

Grade 5 Target Performance



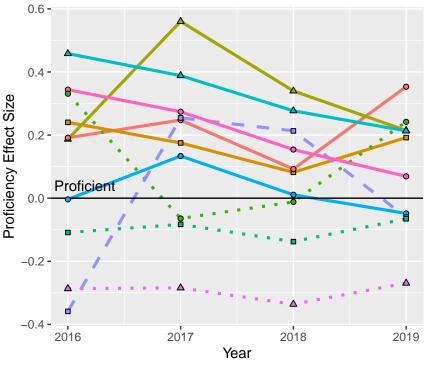
solid = Major, dashed = Supporting, dotted = Additional

DRAFT

- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two-dimensional figures into
- categories based on their properties.
 Convert like measurement units within a given measurement system.
- Graph points on the coordinate plane to solve real–world and mathematical
- to solve real–world and mathematical problems.

 Perform operations with multi–digit
- whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance



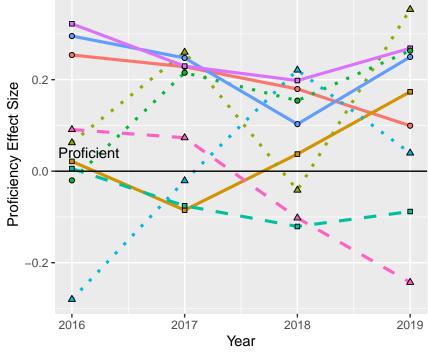
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DRAFT

- Apply and extend previous understandings of arithmetic to algebraic expressions.

 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi–digit
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one–variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real–world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance



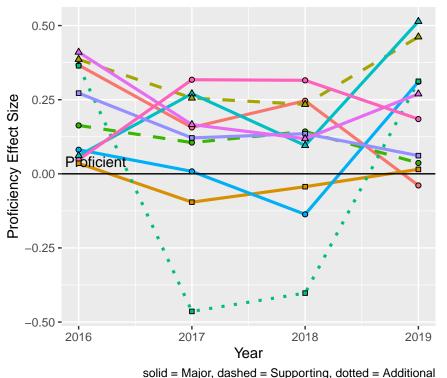
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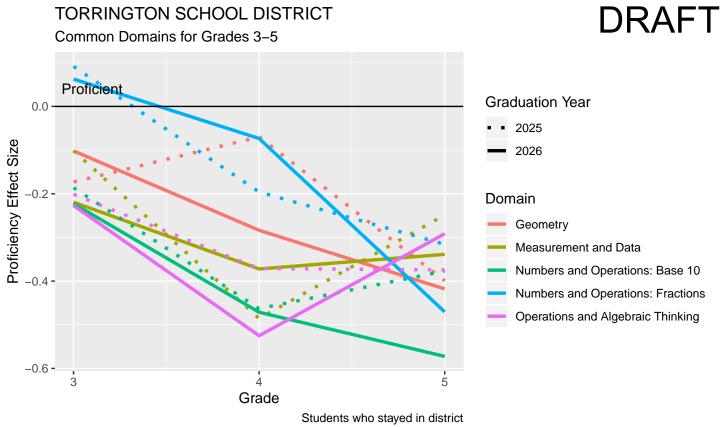
- Analyze proportional relationships and use them to solve real-world and mathematical problems.
 - Apply and extend previous understandings of operations with fractions to add,
- subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical problems involving angle measure, area,
- surface area, and volume. Solve real-life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- about a population.

Grade 8 Target Performance

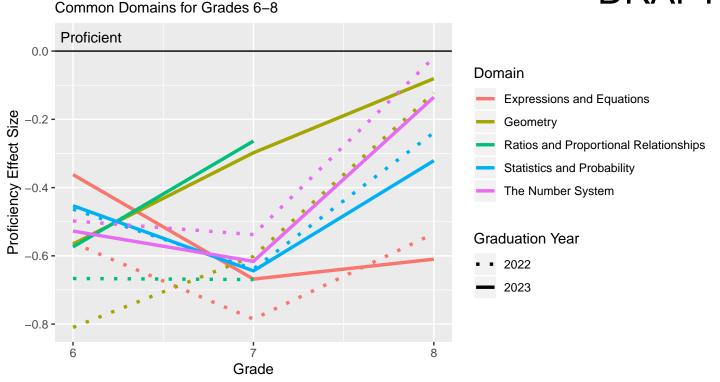
DRAFT



- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions: Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real–world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and integer exponents.



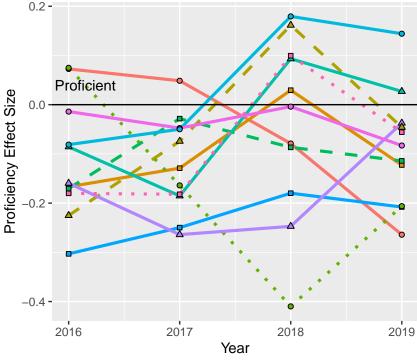
DRAFT



Students who stayed in district

DRAFT

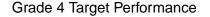


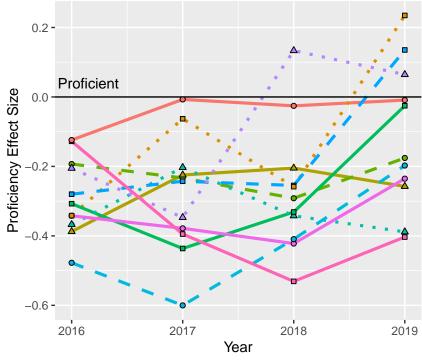


solid = Major, dashed = Supporting, dotted = Additional

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- A Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division.
- multiplication and division.
 Solve problems involving measurement and estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four
- operations, and identify and explain patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
 Use place value understanding and
- properties of arithmetic to perform multi–digit arithmetic.

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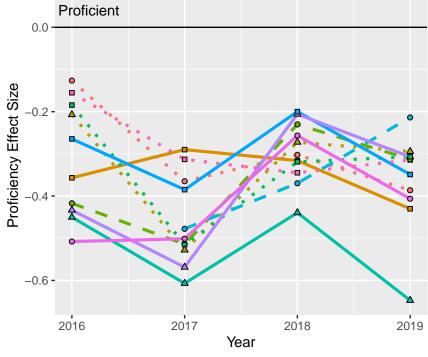




solid = Major, dashed = Supporting, dotted = Additional

- Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.
- Draw and identify lines and angles, and classify shapes by properties of their lines and angles.
- Extend understanding of fraction equivalence and ordering.
 Gain familiarity with factors and
- multiples.
 Generalize place value understanding for multi–digit whole numbers.
- Generate and analyze patterns.
- Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.
- understand concepts of angle and measure angles.
- Understand decimal notation for fractions, and compare decimal fractions.
 Use place value understanding and
- properties of operations to perform multi-digit arithmetic.
 Use the four operations with whole
- Use the four operations with whole numbers to solve problems.

Grade 5 Target Performance



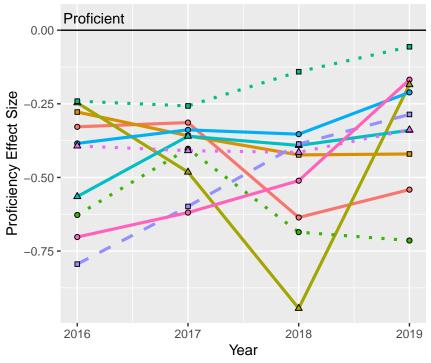
solid = Major, dashed = Supporting, dotted = Additional

DRAFT

- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two–dimensional figures into
- categories based on their properties.
 Convert like measurement units within a
- given measurement system.

 Graph points on the coordinate plane
- to solve real–world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance



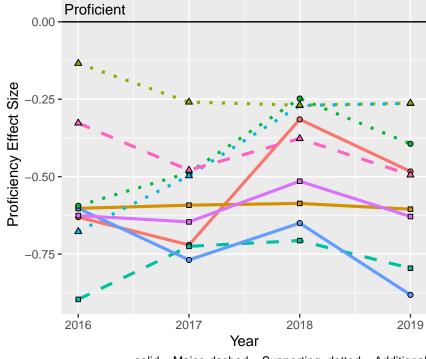
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DRAFT

- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.

 Compute fluently with multi-digit
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one-variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real—world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance



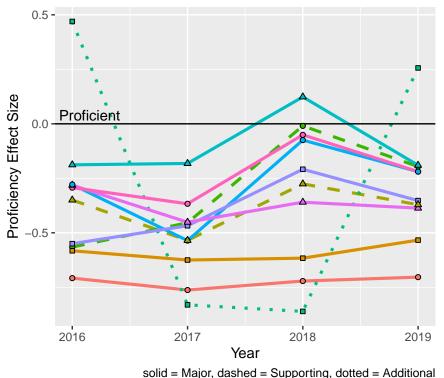
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DRAFT

- Analyze proportional relationships and use them to solve real-world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add,
- subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical problems involving angle measure, area, surface area, and volume.
- Solve real-life and mathematical problems using numerical and algebraic
- expressions and equations. Use properties of operations to generate
- equivalent expressions.
 Use random sampling to draw inferences
- about a population.

Grade 8 Target Performance



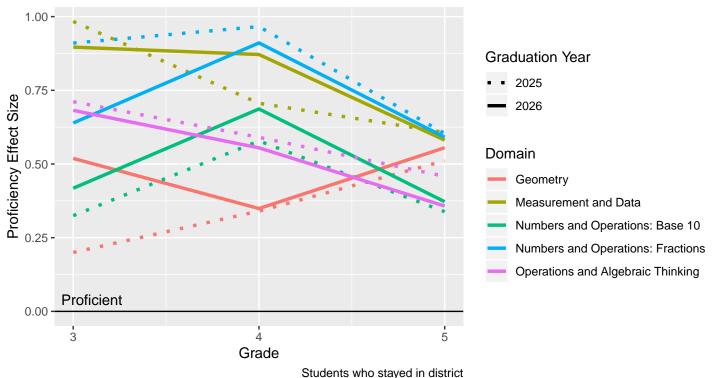


Target

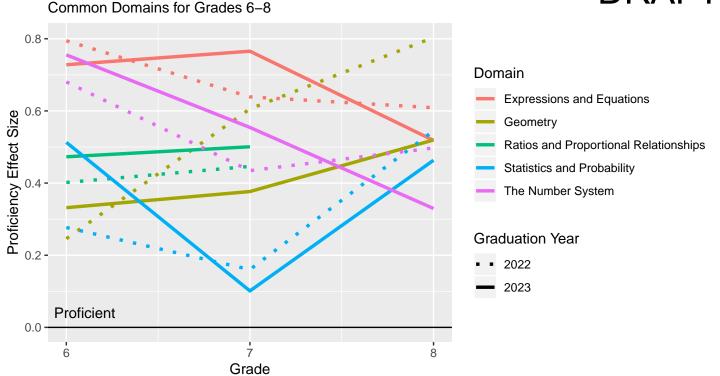
- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real—world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and integer exponents.

TRUMBULL SCHOOL DISTRICT Common Domains for Grades 3–5





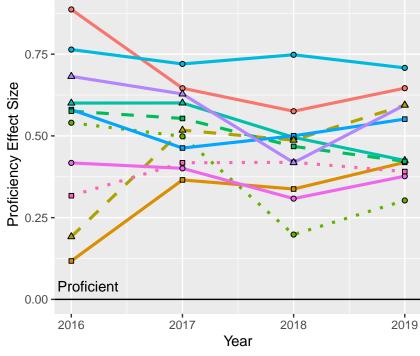




Students who stayed in district

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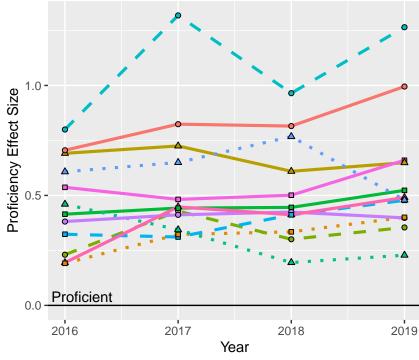




solid = Major, dashed = Supporting, dotted = Additional

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
- estimation of intervals of time, liquid
- volumes, and masses of objects. Solve problems involving the four operations, and identify and explain
- patterns in arithmetic. Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi-digit arithmetic.

Grade 4 Target Performance



solid = Major, dashed = Supporting, dotted = Additional

Target

DRAFT

Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.

Draw and identify lines and angles, and classify shapes by properties of their

lines and angles. Extend understanding of fraction

equivalence and ordering. Gain familiarity with factors and multiples.

Generalize place value understanding for multi-digit whole numbers.

Generate and analyze patterns.

Represent and interpret data.

Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

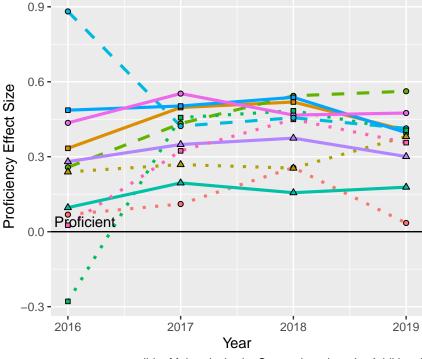
understand concepts of angle and measure angles. Understand decimal notation for

fractions, and compare decimal fractions. Use place value understanding and

properties of operations to perform multi-digit arithmetic.
Use the four operations with whole

numbers to solve problems.

Grade 5 Target Performance



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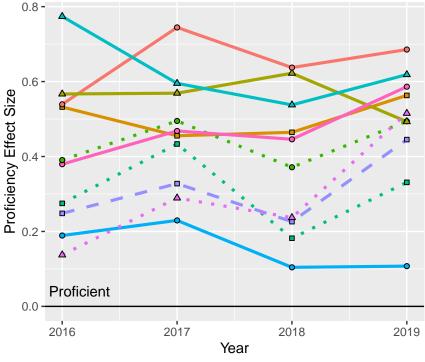
Target

- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two-dimensional figures into
- categories based on their properties.
 Convert like measurement units within a given measurement system.
- Graph points on the coordinate plane to solve real–world and mathematical
- problems.

 Perform operations with multi–digit
- whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

solid = Major, dashed = Supporting, dotted = Additional

Grade 6 Target Performance



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Target

numbers.

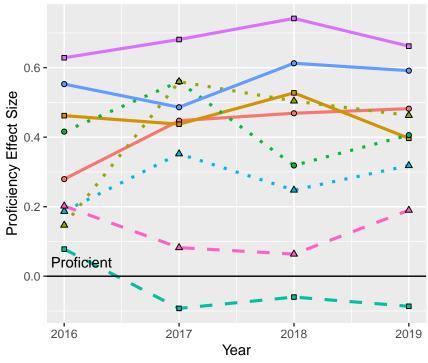
- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- Compute fluently with multi–digit numbers and find common factors and
- multiples.

 Develop understanding of statistical
- variability.

 Reason about and solve one–variable
- equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real–world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

solid = Major, dashed = Supporting, dotted = Additional

Grade 7 Target Performance



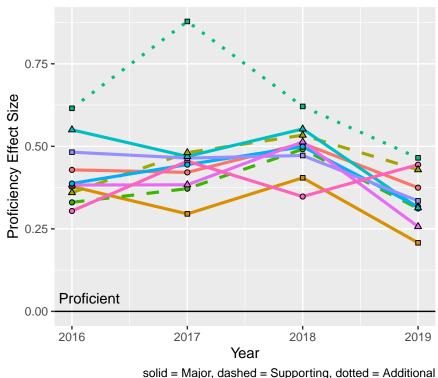
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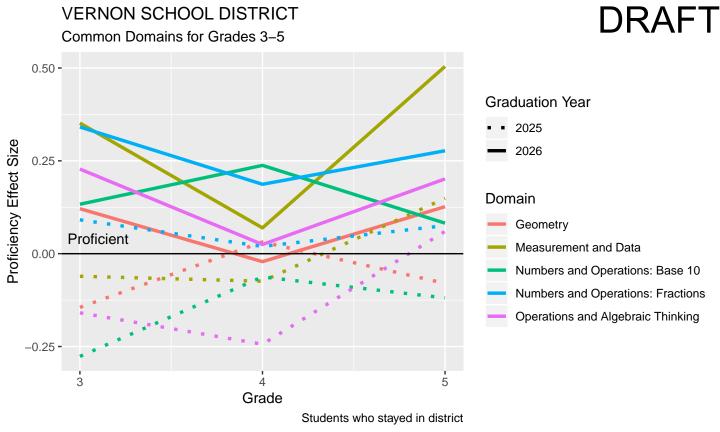
- Analyze proportional relationships and use them to solve real-world and mathematical problems.
 - Apply and extend previous understandings of operations with fractions to add,
- subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical problems involving angle measure, area, surface area, and volume.
- Solve real-life and mathematical problems using numerical and algebraic
- expressions and equations. Use properties of operations to generate
- equivalent expressions.
 Use random sampling to draw inferences
- about a population.

Grade 8 Target Performance





- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real–world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and integree exponents.



VERNON SCHOOL DISTRICT DRAFT Common Domains for Grades 6-8 Domain **Proficient Expressions and Equations** Geometry Ratios and Proportional Relationships Statistics and Probability The Number System **Graduation Year** 2022 −0.4 **-**2023

Proficiency Effect Size

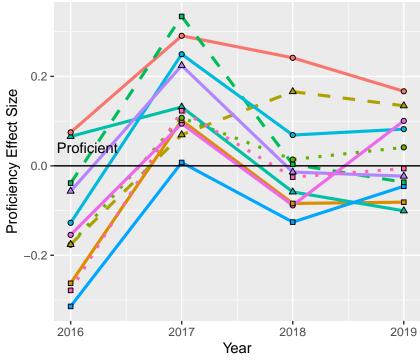
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Students who stayed in district

Grade

DRAFT

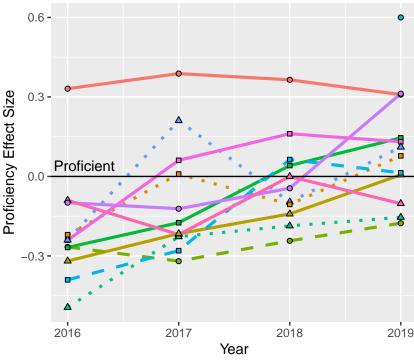




solid = Major, dashed = Supporting, dotted = Additional

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division.
- Solve problems involving measurement and estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four
 operations, and identify and explain
- patterns in arithmetic.
 Understand concepts of area and relate area to multiplication and to addition.
 Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi-digit arithmetic.

Grade 4 Target Performance



solid = Major, dashed = Supporting, dotted = Additional

DRAFT

Target

Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.

Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

Extend understanding of fraction equivalence and ordering. Gain familiarity with factors and

multiples.

Generalize place value understanding for multi-digit whole numbers.

Generate and analyze patterns.

Represent and interpret data.

Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

understand concepts of angle and measure angles. Understand decimal notation for

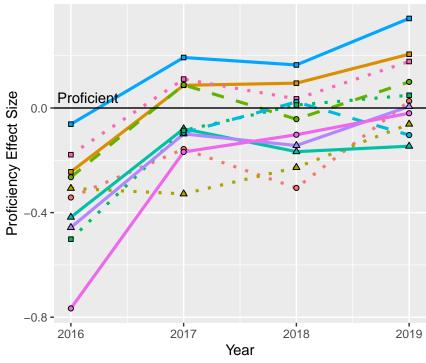
fractions, and compare decimal fractions.

Use place value understanding and properties of operations to perform multi-digit arithmetic.
Use the four operations with whole

numbers to solve problems.

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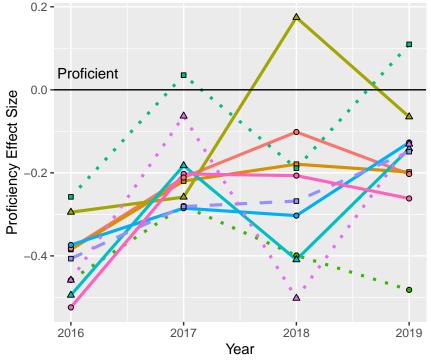


solid = Major, dashed = Supporting, dotted = Additional

- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two–dimensional figures into
- categories based on their properties.
 Convert like measurement units within a
- given measurement system.
 Graph points on the coordinate plane
- to solve real–world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

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Grade 6 Target Performance

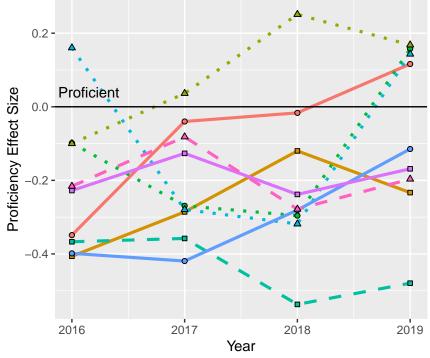


solid = Major, dashed = Supporting, dotted = Additional

- Apply and extend previous understandings of arithmetic to algebraic expressions.

 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi–digit
 numbers and find common factors and
- multiples.
 Develop understanding of statistical variability.
- Reason about and solve one–variable equations and inequalities. Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real–world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance

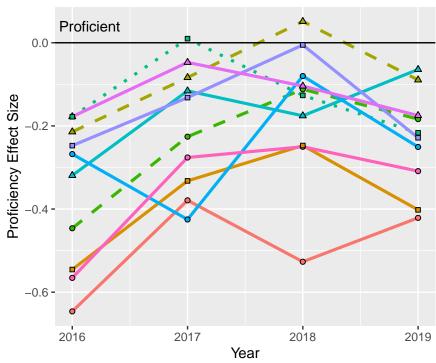


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DRAFT

- Analyze proportional relationships and use them to solve real–world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add,
- of operations with fractions to add, subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real–life and mathematical problems involving angle measure, area,
- surface area, and volume.
 Solve real-life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- Use random sampling to draw inferences about a population.

Grade 8 Target Performance

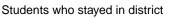


solid = Major, dashed = Supporting, dotted = Additional

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- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions: Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real–world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and integer exponents.

VOLUNTOWN SCHOOL DISTRICT DRAFT Common Domains for Grades 3-5 **Graduation Year** 1.00 -2025 Proficiency Effect Size 2026 Domain Geometry



Grade

Proficient

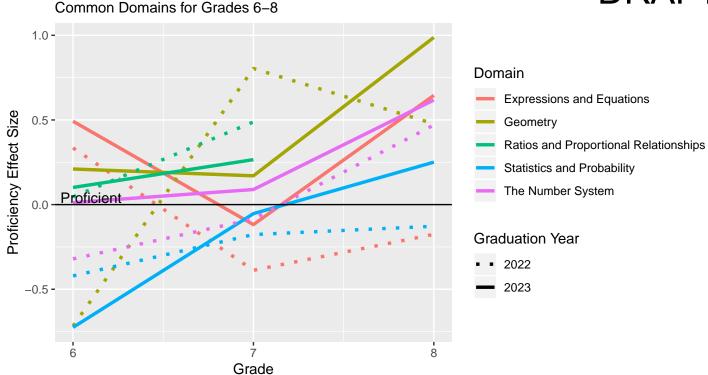
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Measurement and Data

Numbers and Operations: Base 10 Numbers and Operations: Fractions Operations and Algebraic Thinking

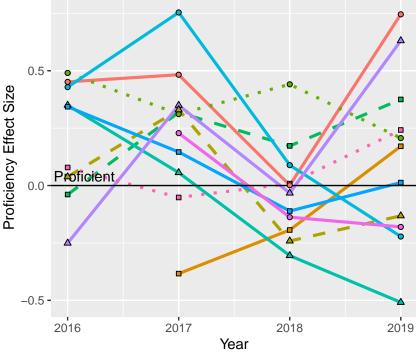
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Students who stayed in district

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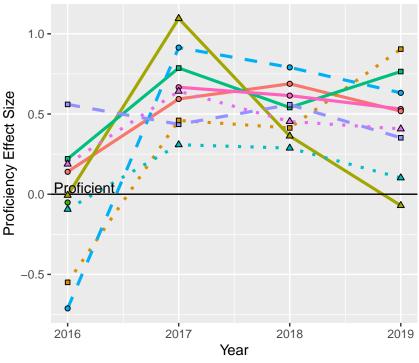


solid = Major, dashed = Supporting, dotted = Additional

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
- estimation of intervals of time, liquid
- volumes, and masses of objects. Solve problems involving the four operations, and identify and explain
- patterns in arithmetic. Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi-digit arithmetic.

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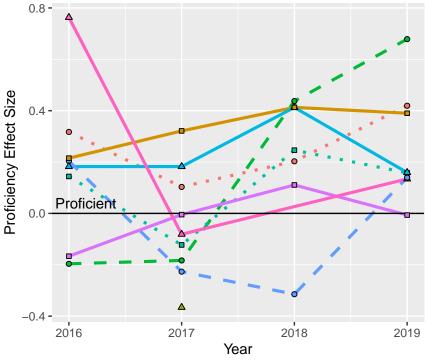




solid = Major, dashed = Supporting, dotted = Additional

- Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.
- Draw and identify lines and angles, and classify shapes by properties of their lines and angles.
- Extend understanding of fraction equivalence and ordering.
 Gain familiarity with factors and
- multiples.
 Generalize place value understanding for
- multi–digit whole numbers.
 Solve problems involving measurement and conversion of measurements from a larger
- unit to a smaller unit.
 understand concepts of angle and measure
- angles.
 Understand decimal notation for
- fractions, and compare decimal fractions.
- Use place value understanding and properties of operations to perform multi–digit arithmetic.
 Use the four operations with whole
- Use the four operations with whole numbers to solve problems.

Grade 5 Target Performance



solid = Major, dashed = Supporting, dotted = Additional

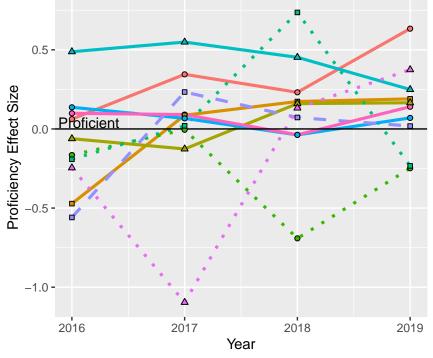
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- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
- Classify two-dimensional figures into categories based on their properties. Convert like measurement units within a
- given measurement system.

 Graph points on the coordinate plane
- to solve real–world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

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Grade 6 Target Performance

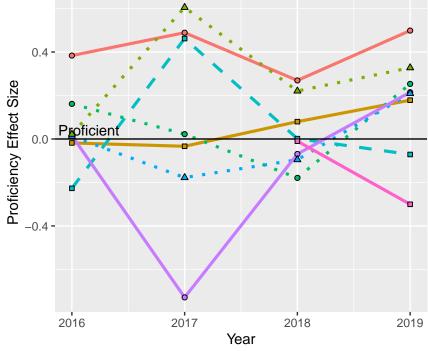


Target

- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi-digit
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one-variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real–world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

solid = Major, dashed = Supporting, dotted = Additional

Grade 7 Target Performance



solid = Major, dashed = Supporting, dotted = Additional

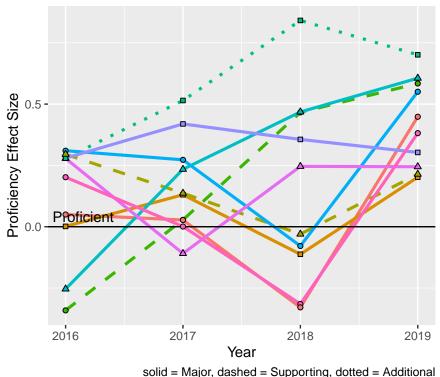
DRAFT

- Analyze proportional relationships and use them to solve real–world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add,
- subtract, multiply, and divide rational numbers.
- Draw, construct and describe geometrical figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical problems involving angle measure, area,
- surface area, and volume. Solve real–life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- Use random sampling to draw inference about a population.

VOLUNTOWN SCHOOL DISTRICT

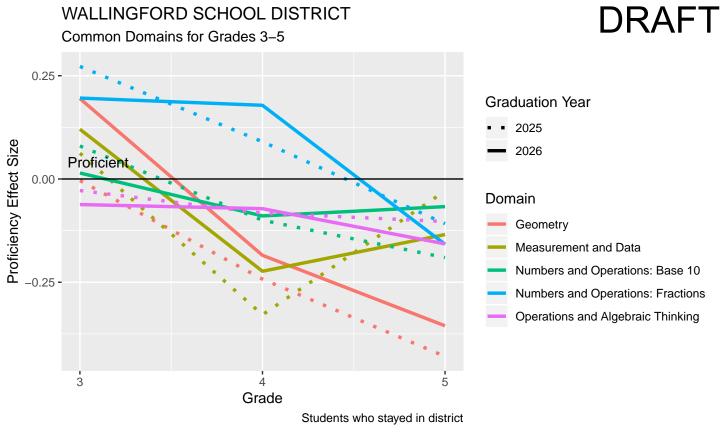
Grade 8 Target Performance

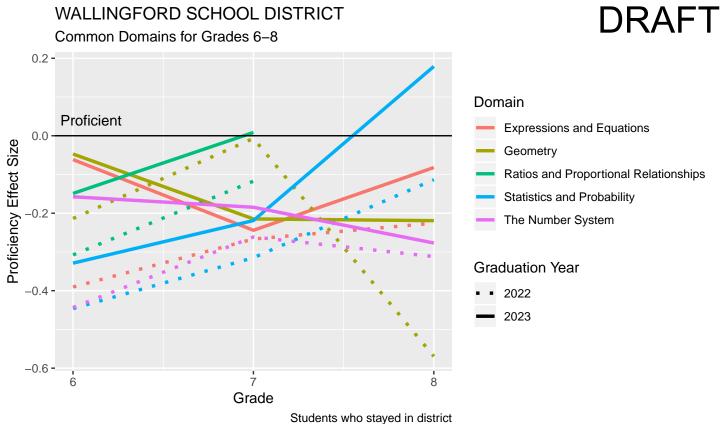




Target

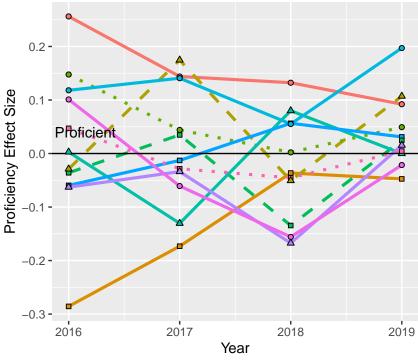
- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions: Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real—world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
- between quantities.
 Work with radicals and integer exponents.





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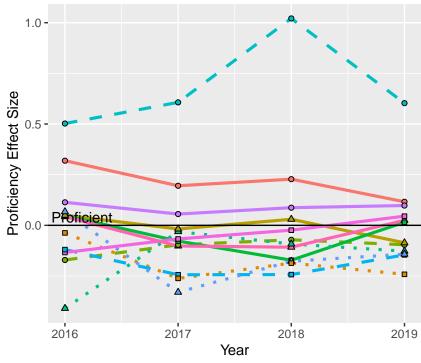




solid = Major, dashed = Supporting, dotted = Additional

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
 - estimation of intervals of time, liquid
- volumes, and masses of objects. Solve problems involving the four operations, and identify and explain
- patterns in arithmetic. Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi-digit arithmetic.

Grade 4 Target Performance



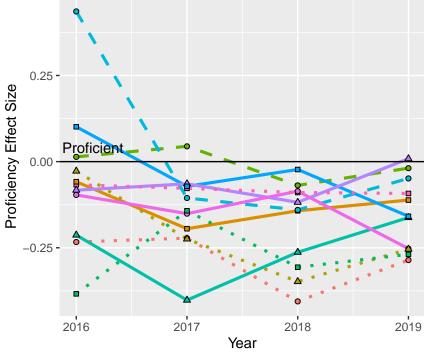
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Target

DRAFT

- Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.
- Draw and identify lines and angles, and classify shapes by properties of their lines and angles.
- Extend understanding of fraction equivalence and ordering. Gain familiarity with factors and multiples.
- Generalize place value understanding for multi-digit whole numbers.
- Generate and analyze patterns.
- Represent and interpret data.
- Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.
- understand concepts of angle and measure angles. Understand decimal notation for
- fractions, and compare decimal fractions. Use place value understanding and
- properties of operations to perform multi-digit arithmetic.
 Use the four operations with whole
- numbers to solve problems.

Grade 5 Target Performance

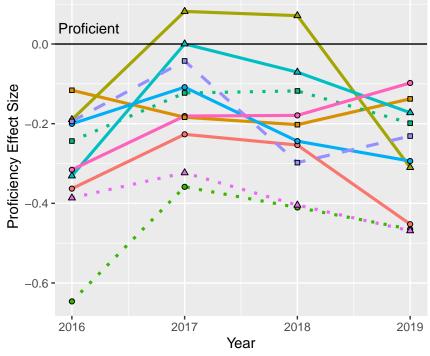


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- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two–dimensional figures into categories based on their properties.
- Convert like measurement units within a given measurement system.
- Graph points on the coordinate plane to solve real-world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance



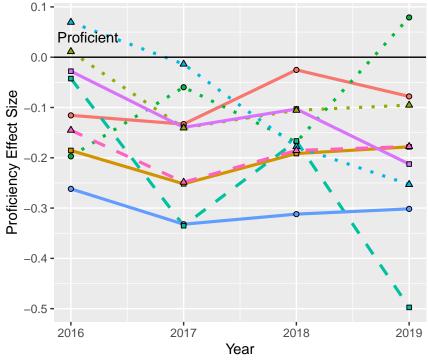
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- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi–digit
 numbers and find common factors and
- multiples.

 Develop understanding of statistical
- Develop understanding of statistical variability.
- Reason about and solve one-variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real–world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance



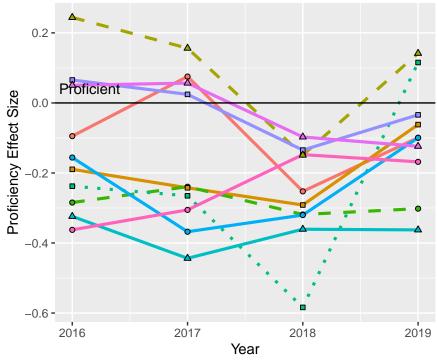
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DRAFT

- Analyze proportional relationships and use them to solve real-world and mathematical problems.
 - Apply and extend previous understandings of operations with fractions to add,
- subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical
- problems involving angle measure, area, surface area, and volume. Solve real-life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- about a population.

Grade 8 Target Performance

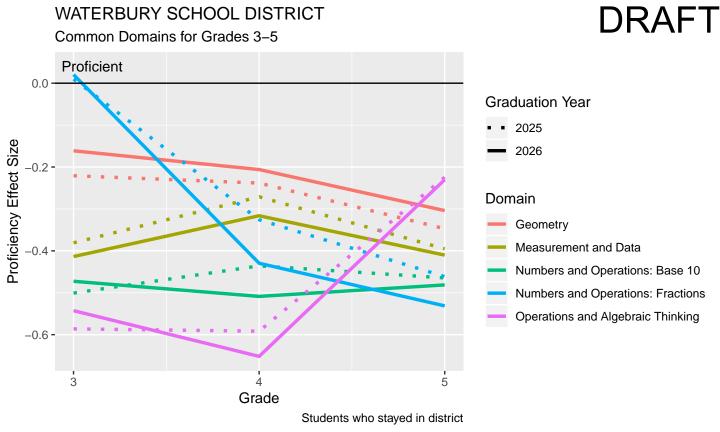




Target

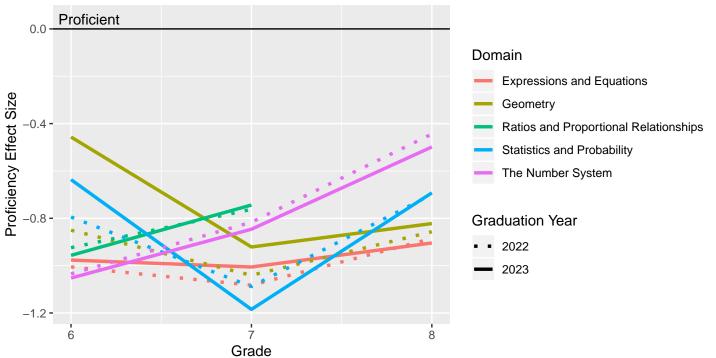
- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions: Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real—world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and integer exponents.

solid = Major, dashed = Supporting, dotted = Additional



WATERBURY SCHOOL DISTRICT Common Domains for Grades 6–8

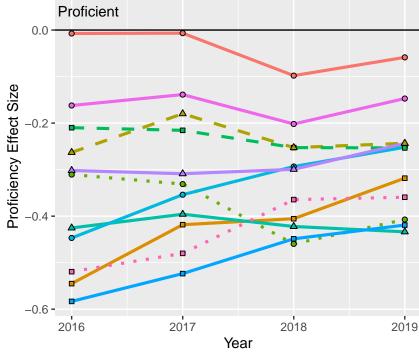




Students who stayed in district

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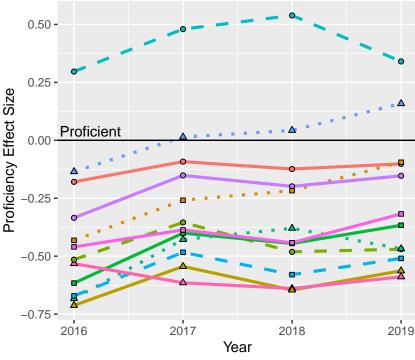




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- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division.
 Solve problems involving measurement and
- Solve problems involving measurement and estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four
 operations, and identify and explain
- patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
 Use place value understanding and
- properties of arithmetic to perform multi–digit arithmetic.

Grade 4 Target Performance



solid = Major, dashed = Supporting, dotted = Additional

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Target

Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.

Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

Extend understanding of fraction equivalence and ordering. Gain familiarity with factors and

multiples.

Generalize place value understanding for multi-digit whole numbers.

Generate and analyze patterns.

Represent and interpret data.

Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit. understand concepts of angle and measure

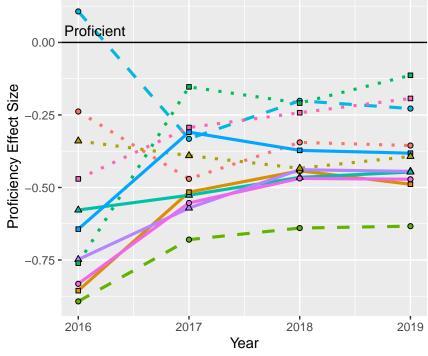
angles. Understand decimal notation for

fractions, and compare decimal fractions.

Use place value understanding and properties of operations to perform multi-digit arithmetic.
Use the four operations with whole

numbers to solve problems.

Grade 5 Target Performance

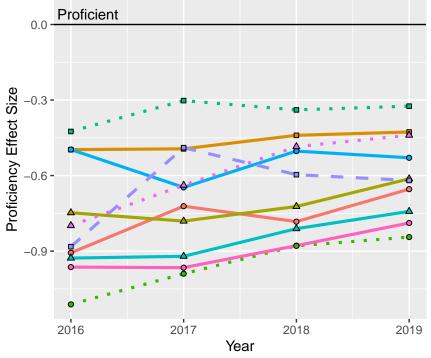


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- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two-dimensional figures into
- categories based on their properties.
 Convert like measurement units within a given measurement system.
- Graph points on the coordinate plane to solve real-world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance



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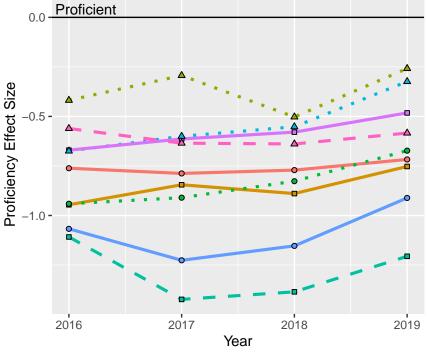
Target

- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi-digit
 numbers and find common factors and
- multiples.

 Develop understanding of statistical variability.
- Reason about and solve one–variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real–world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

solid = Major, dashed = Supporting, dotted = Additional

Grade 7 Target Performance



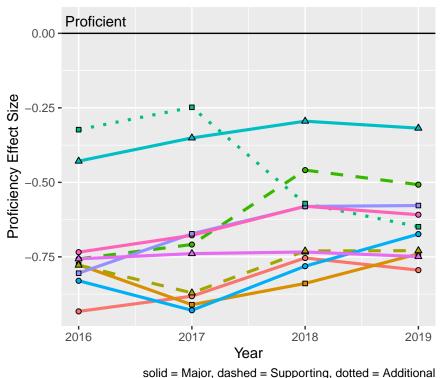
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DRAFT

- Analyze proportional relationships and use them to solve real-world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add,
- subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical problems involving angle measure, area, surface area, and volume.
- Solve real-life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- about a population.

Grade 8 Target Performance

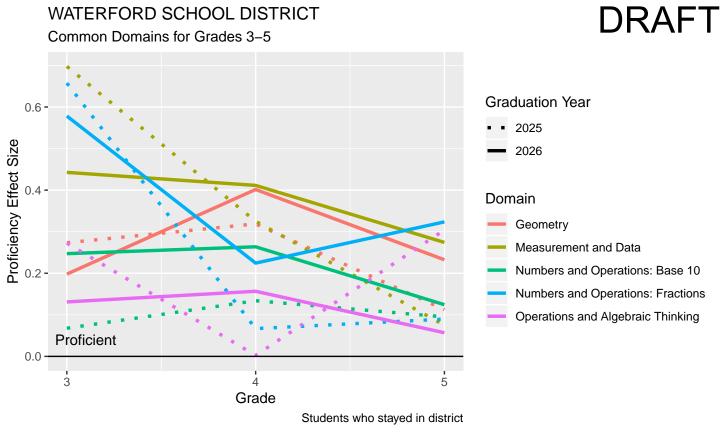




Target

- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by
- not rational, and approximate them by rational numbers.

 Solve real–world and mathematical
- Solve real-world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and intege exponents.



DRAFT WATERFORD SCHOOL DISTRICT Common Domains for Grades 6-8 0.4 -Domain **Expressions and Equations** Geometry Ratios and Proportional Relationships 0.2 -Statistics and Probability The Number System Proficient. **Graduation Year** 2022 2023

Proficiency Effect Size

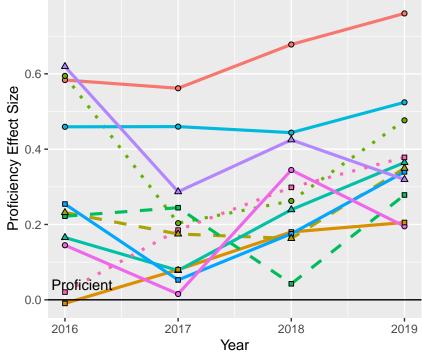
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Students who stayed in district

Grade

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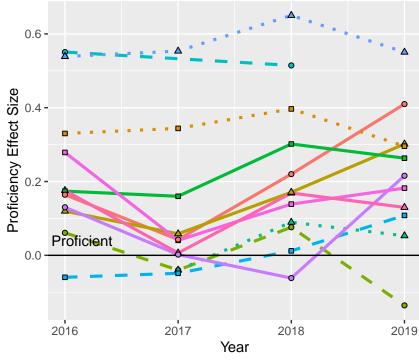




solid = Major, dashed = Supporting, dotted = Additional

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
- estimation of intervals of time, liquid
- volumes, and masses of objects. Solve problems involving the four operations, and identify and explain
- patterns in arithmetic. Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi-digit arithmetic.

Grade 4 Target Performance



solid = Major, dashed = Supporting, dotted = Additional

Target

DRAFT

Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.

Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

Extend understanding of fraction equivalence and ordering. Gain familiarity with factors and

multiples.

Generalize place value understanding for multi-digit whole numbers.

Generate and analyze patterns.

Represent and interpret data.

Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

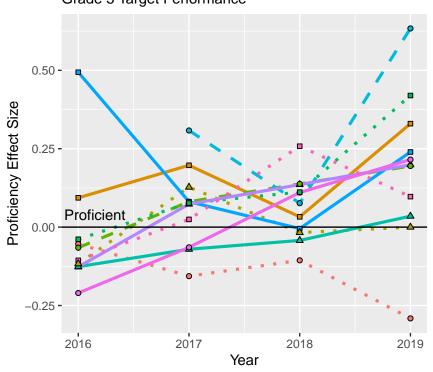
understand concepts of angle and measure angles. Understand decimal notation for

fractions, and compare decimal fractions.

Use place value understanding and properties of operations to perform multi-digit arithmetic.
Use the four operations with whole

numbers to solve problems.

DRAFT Grade 5 Target Performance



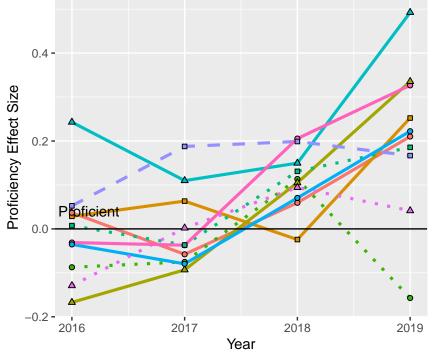
Target

- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions. Classify two-dimensional figures into
- categories based on their properties. Convert like measurement units within a given measurement system.
- Graph points on the coordinate plane to solve real-world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
 - Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

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Grade 6 Target Performance



Target

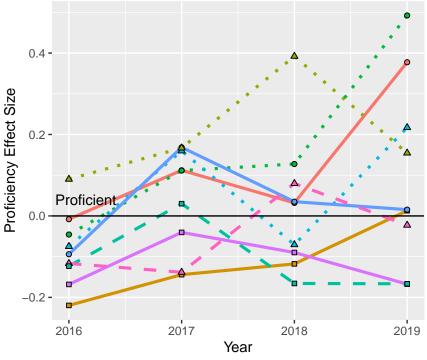
- Apply and extend previous understandings of arithmetic to algebraic expressions.

 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi–digit
 numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one–variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real–world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

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Grade 7 Target Performance

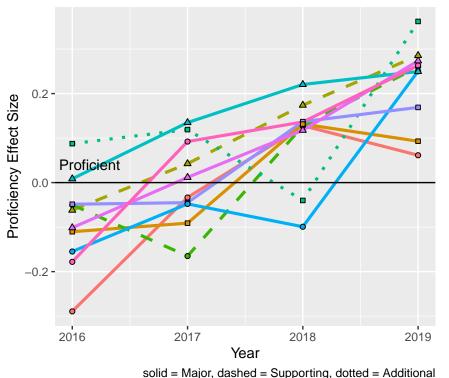


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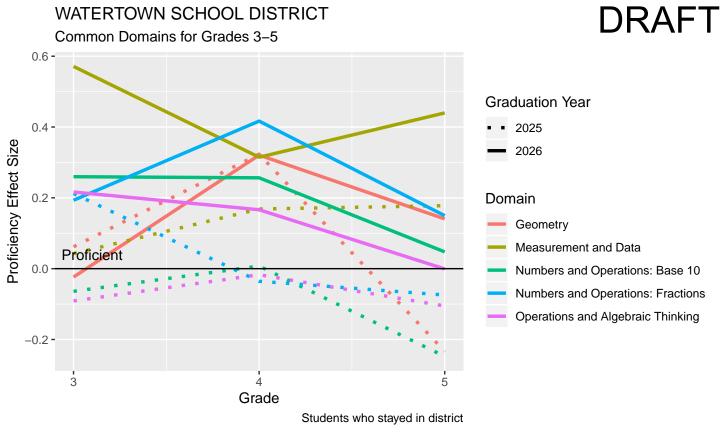
- Analyze proportional relationships and use them to solve real-world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational
- numbers. Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability
- models. Solve real-life and mathematical
- problems involving angle measure, area, surface area, and volume. Solve real-life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- about a population.

Grade 8 Target Performance



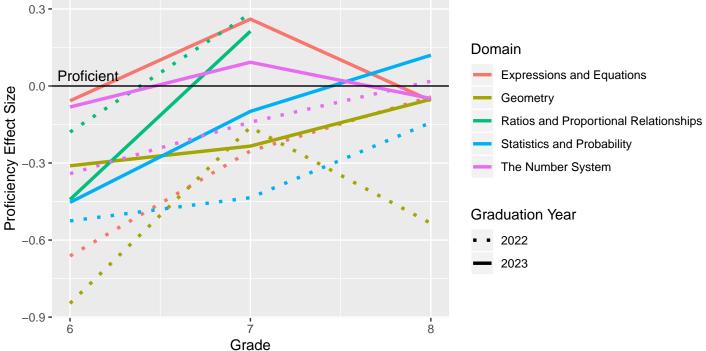


- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions: Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real-world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities. Work with radicals and integer
- exponents.



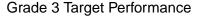
WATERTOWN SCHOOL DISTRICT Common Domains for Grades 6–8 0.3

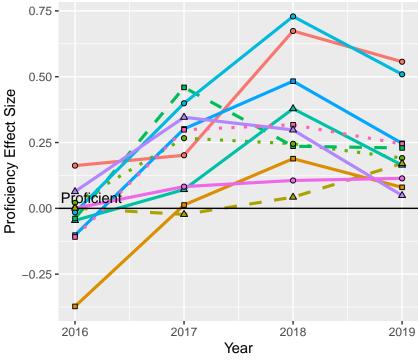




Students who stayed in district

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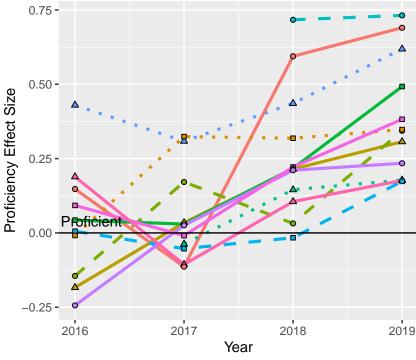




solid = Major, dashed = Supporting, dotted = Additional

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
 - estimation of intervals of time, liquid
- volumes, and masses of objects. Solve problems involving the four
- operations, and identify and explain patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division. Use place value understanding and
- properties of arithmetic to perform multi-digit arithmetic.

Grade 4 Target Performance



solid = Major, dashed = Supporting, dotted = Additional

Target

DRAFT

Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.

Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

Extend understanding of fraction equivalence and ordering. Gain familiarity with factors and multiples.

Generalize place value understanding for multi-digit whole numbers.

Generate and analyze patterns.

Represent and interpret data.

Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

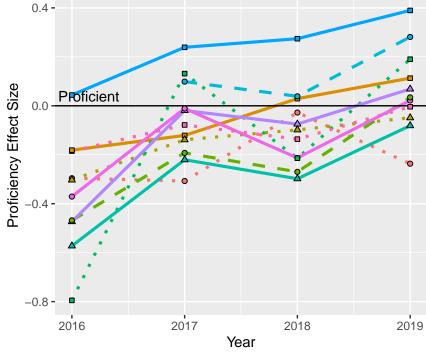
understand concepts of angle and measure angles. Understand decimal notation for

fractions, and compare decimal fractions.

Use place value understanding and properties of operations to perform multi-digit arithmetic.
Use the four operations with whole

numbers to solve problems.

Grade 5 Target Performance

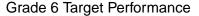


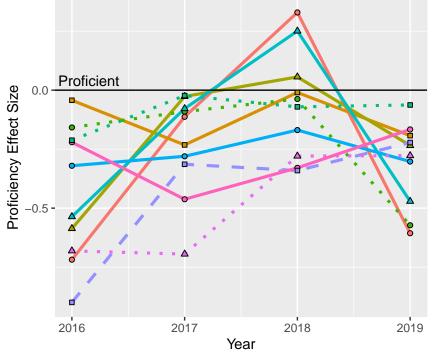
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- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two-dimensional figures into
- categories based on their properties.
 Convert like measurement units within a
- given measurement system.
 Graph points on the coordinate plane
- to solve real–world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

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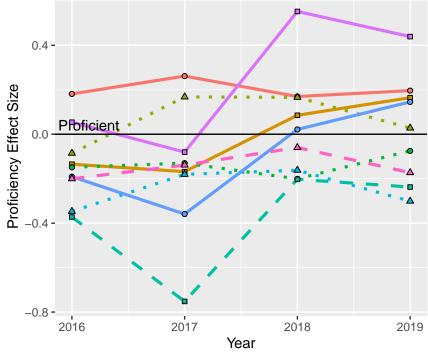
Target

numbers.

- Apply and extend previous understandings of arithmetic to algebraic expressions. Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- Compute fluently with multi-digit numbers and find common factors and
- multiples. Develop understanding of statistical variability.
- Reason about and solve one-variable equations and inequalities. Represent and analyze quantitative
- relationships between dependent and independent variables. Solve real-world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

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Grade 7 Target Performance

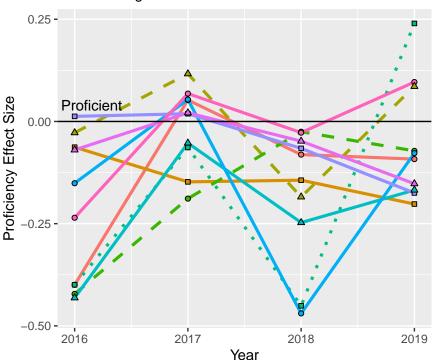


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- Analyze proportional relationships and use them to solve real-world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add,
- subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical problems involving angle measure, area,
- surface area, and volume. Solve real-life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- about a population.

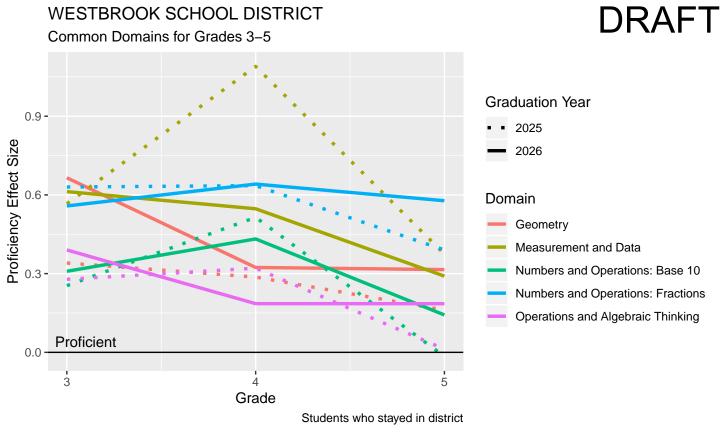
Grade 8 Target Performance

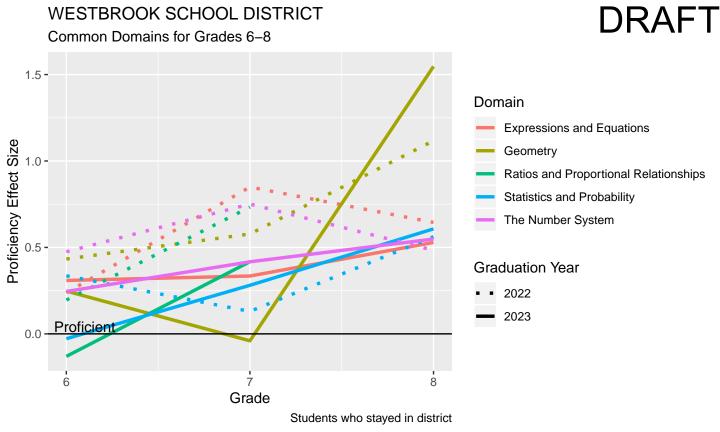


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- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real–world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and integer exponents.

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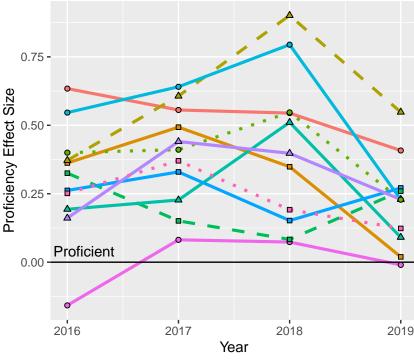




WESTBROOK SCHOOL DISTRICT

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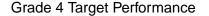


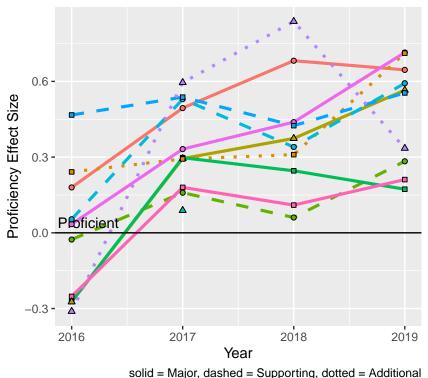


solid = Major, dashed = Supporting, dotted = Additional

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
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- volumes, and masses of objects. Solve problems involving the four operations, and identify and explain
- patterns in arithmetic. Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi-digit arithmetic.

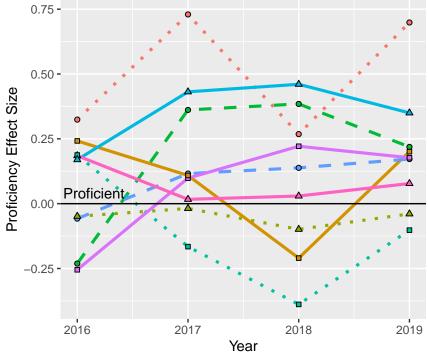
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- Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.
- Draw and identify lines and angles, and classify shapes by properties of their lines and angles.
- Extend understanding of fraction equivalence and ordering.
 Gain familiarity with factors and
- multiples.
 Generalize place value understanding for multi–digit whole numbers.
- Generate and analyze patterns.
- Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.
- understand concepts of angle and measure angles.
- Understand decimal notation for fractions, and compare decimal fractions.
 Use place value understanding and
- properties of operations to perform multi-digit arithmetic.
 Use the four operations with whole
- Use the four operations with whole numbers to solve problems.

Grade 5 Target Performance

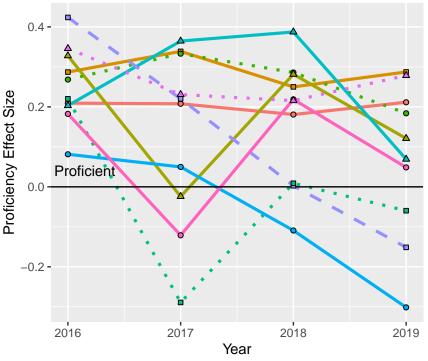


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- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two-dimensional figures into
- categories based on their properties.
 Convert like measurement units within a
- given measurement system.
 Graph points on the coordinate plane
- to solve real-world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance



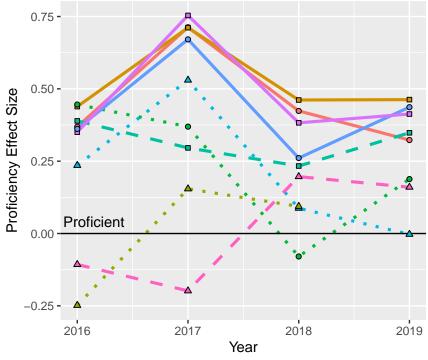
solid = Major, dashed = Supporting, dotted = Additional

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- Apply and extend previous understandings of arithmetic to algebraic expressions. Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi–digit
 numbers and find common factors and
- multiples.

 Develop understanding of statistical
- Develop understanding of statistical variability.
- Reason about and solve one-variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real–world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance

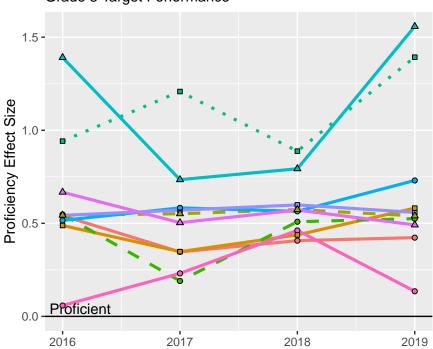


solid = Major, dashed = Supporting, dotted = Additional

DRAFT

- Analyze proportional relationships and use them to solve real-world and mathematical problems.
- Apply and extend previous understandings
- of operations with fractions to add, subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical
- problems involving angle measure, area, surface area, and volume. Solve real-life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- about a population.

Grade 8 Target Performance

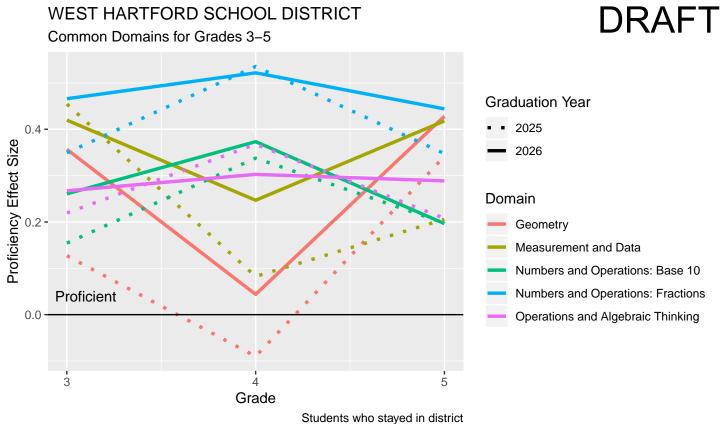


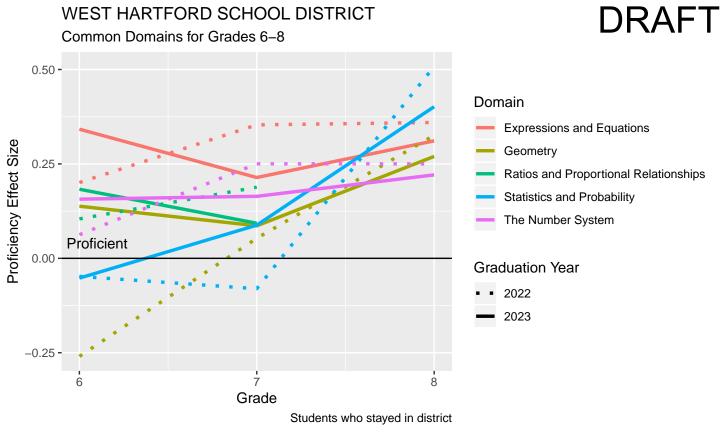
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Year

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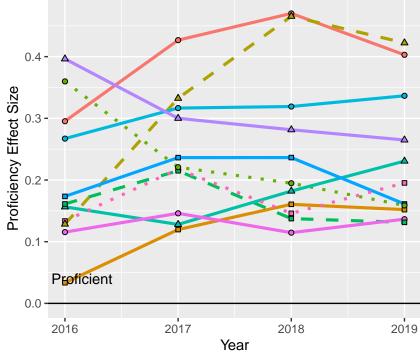
- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
 - Solve real-world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and integer exponents.





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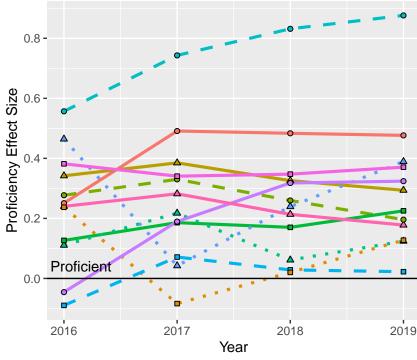




solid = Major, dashed = Supporting, dotted = Additional

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
- estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four
 operations, and identify and explain
- patterns in arithmetic.
 Understand concepts of area and relate area to multiplication and to addition.
 Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi–digit arithmetic.

Grade 4 Target Performance



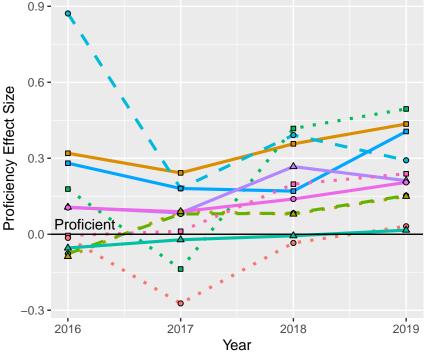
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Target

DRAFT

- Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.
- Draw and identify lines and angles, and classify shapes by properties of their lines and angles.
- Extend understanding of fraction equivalence and ordering. Gain familiarity with factors and multiples.
- Generalize place value understanding for multi-digit whole numbers.
- Generate and analyze patterns.
- Represent and interpret data.
- Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.
- understand concepts of angle and measure angles. Understand decimal notation for
- fractions, and compare decimal fractions.
- Use place value understanding and properties of operations to perform multi-digit arithmetic.
 Use the four operations with whole
- numbers to solve problems.

Grade 5 Target Performance



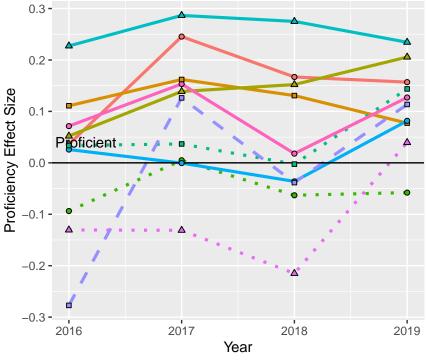
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- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two–dimensional figures into
- categories based on their properties.
 Convert like measurement units within a
- given measurement system.

 Graph points on the coordinate plane
- to solve real–world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
 - Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance



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Target

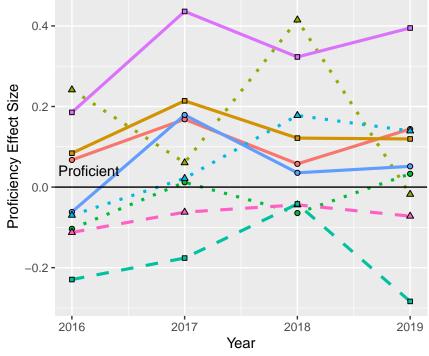
numbers.

- Apply and extend previous understandings of arithmetic to algebraic expressions.

 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- Compute fluently with multi–digit numbers and find common factors and
- multiples.

 Develop understanding of statistical variability.
- Reason about and solve one-variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real–world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance



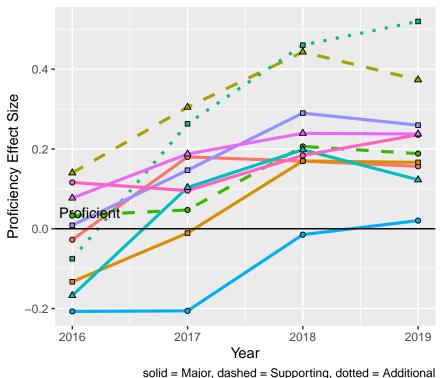
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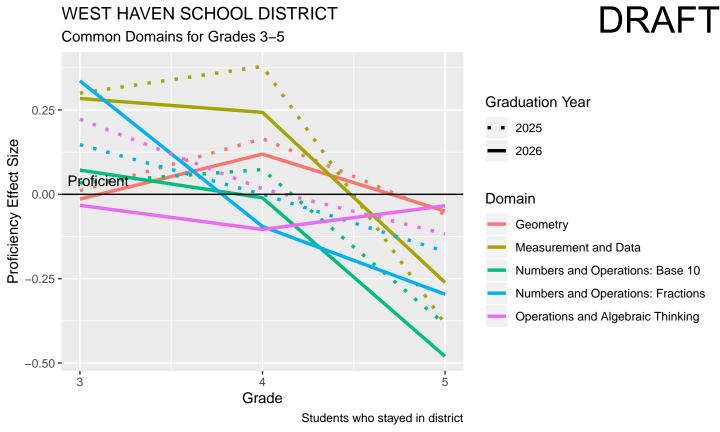
- Analyze proportional relationships and use them to solve real-world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add,
- subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical problems involving angle measure, area, surface area, and volume.
- Solve real-life and mathematical problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- about a population.

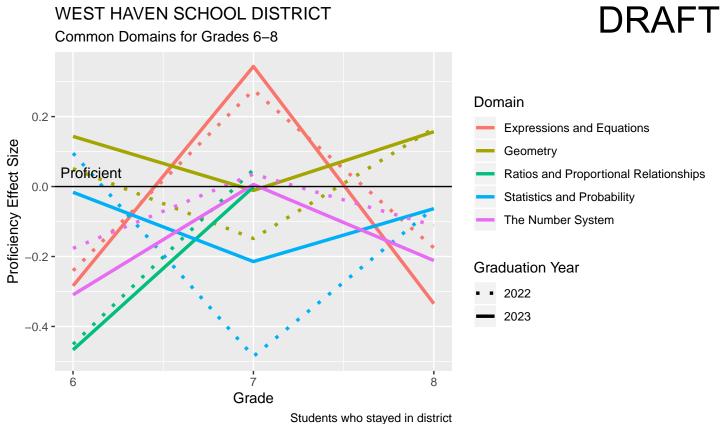
Grade 8 Target Performance





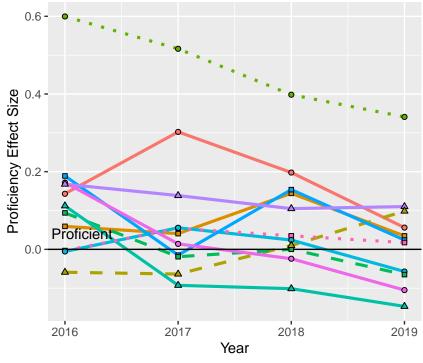
- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real–world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and integer exponents.





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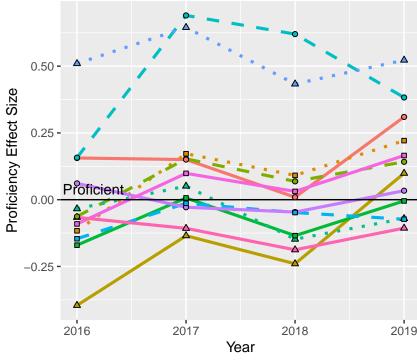




solid = Major, dashed = Supporting, dotted = Additional

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division.
 Solve problems involving measurement and
- Solve problems involving measurement and estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four
 operations, and identify and explain
- patterns in arithmetic.
 Understand concepts of area and relate area to multiplication and to addition.
 Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi–digit arithmetic.

Grade 4 Target Performance



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Target

DRAFT

Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.

Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

Extend understanding of fraction equivalence and ordering. Gain familiarity with factors and

multiples.

Generalize place value understanding for multi-digit whole numbers.

Generate and analyze patterns.

Represent and interpret data.

Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

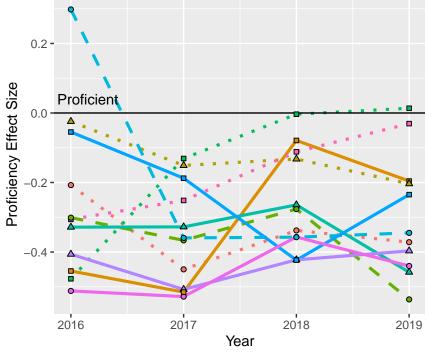
understand concepts of angle and measure angles. Understand decimal notation for

fractions, and compare decimal fractions.

Use place value understanding and properties of operations to perform multi-digit arithmetic.
Use the four operations with whole

numbers to solve problems.

Grade 5 Target Performance



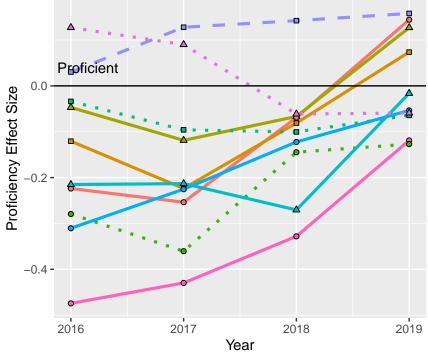
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- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two–dimensional figures into
- categories based on their properties.
 Convert like measurement units within a
- given measurement system.

 Graph points on the coordinate plane
- to solve real–world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance



solid = Major, dashed = Supporting, dotted = Additional

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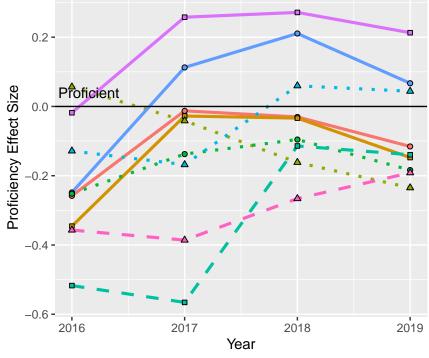
Target

numbers.

- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- Compute fluently with multi-digit numbers and find common factors and
- multiples.

 Develop understanding of statistical variability.
- Reason about and solve one–variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real—world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance



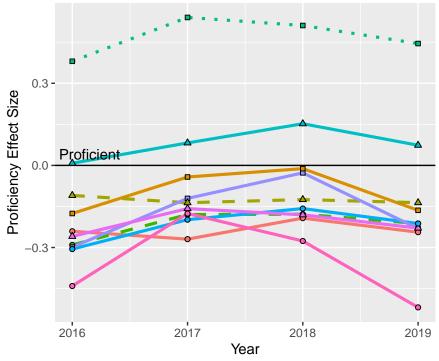
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DRAFT

- Analyze proportional relationships and use them to solve real-world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add,
- subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations. Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical
- problems involving angle measure, area, surface area, and volume. Solve real-life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- about a population.

Grade 8 Target Performance

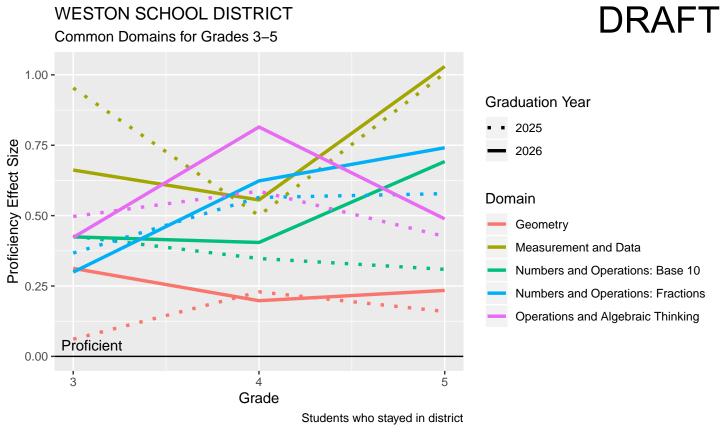


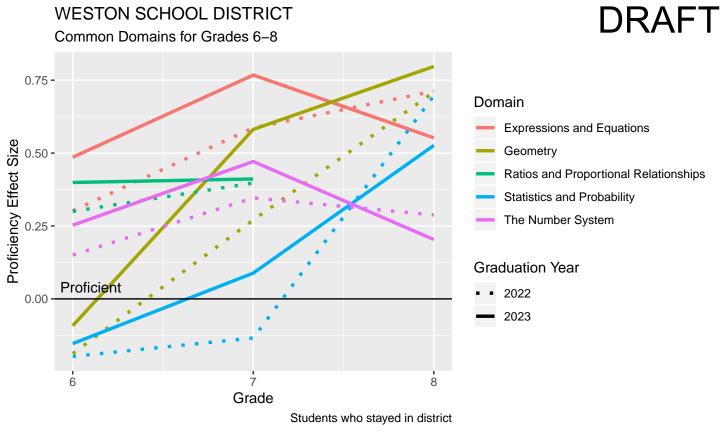


Target

- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real—world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and integer exponents.

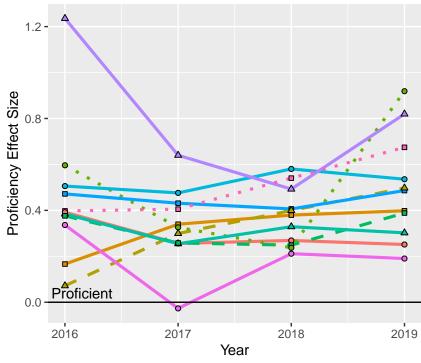
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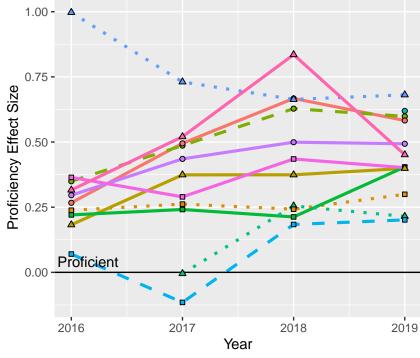




solid = Major, dashed = Supporting, dotted = Additional

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
- Solve problems involving measurement and estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four
- operations, and identify and explain patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition.
 Understand properties of multiplication
- and the relationship between multiplication and division.
 Use place value understanding and
- properties of arithmetic to perform multi–digit arithmetic.

Grade 4 Target Performance



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Target

DRAFT

Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.

Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

Extend understanding of fraction equivalence and ordering. Gain familiarity with factors and

multiples. Generalize place value understanding for

multi-digit whole numbers.

Generate and analyze patterns.

Represent and interpret data.

Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

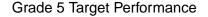
understand concepts of angle and measure angles. Understand decimal notation for

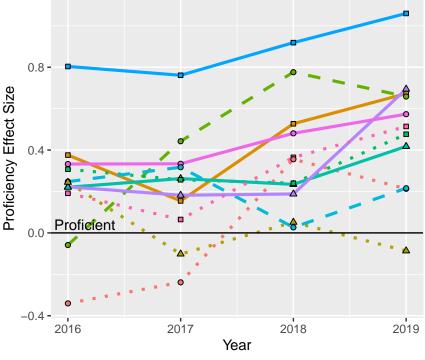
fractions, and compare decimal fractions.

Use place value understanding and properties of operations to perform multi-digit arithmetic. Use the four operations with whole

numbers to solve problems.

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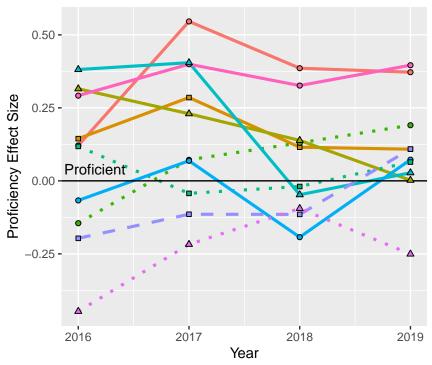




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- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two–dimensional figures into
- categories based on their properties.
 Convert like measurement units within a
- given measurement system.
 Graph points on the coordinate plane
- to solve real–world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance



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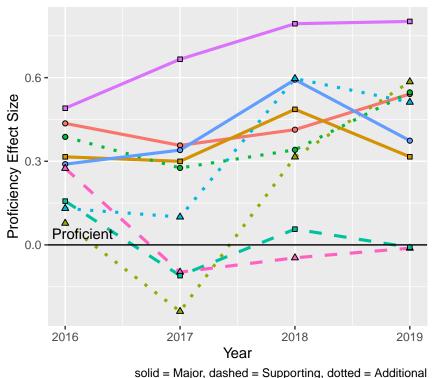
Target

- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
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- Develop understanding of statistical variability.
- Reason about and solve one-variable equations and inequalities.
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- relationships between dependent and independent variables.
 Solve real–world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

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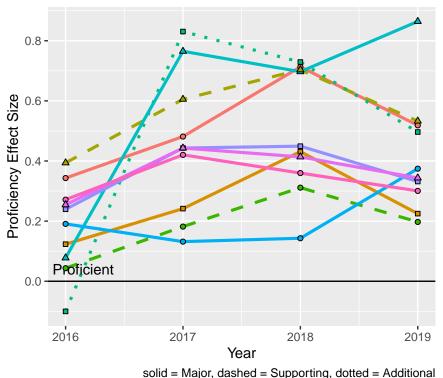
Grade 7 Target Performance



- Analyze proportional relationships and use them to solve real-world and mathematical problems.
- Apply and extend previous understandings
- of operations with fractions to add, subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
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- Solve real-life and mathematical
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- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- about a population.

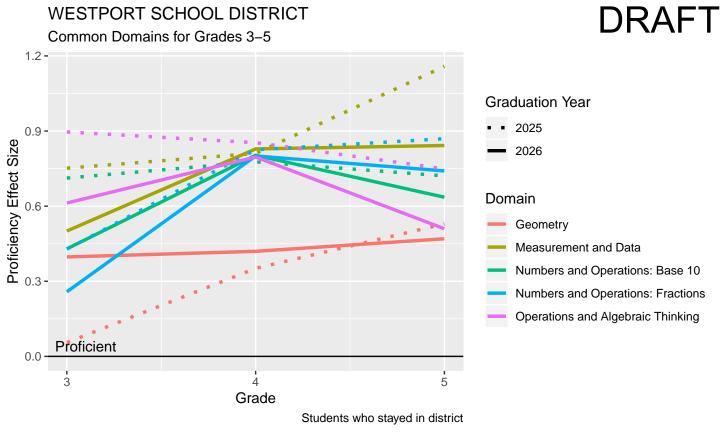
Grade 8 Target Performance

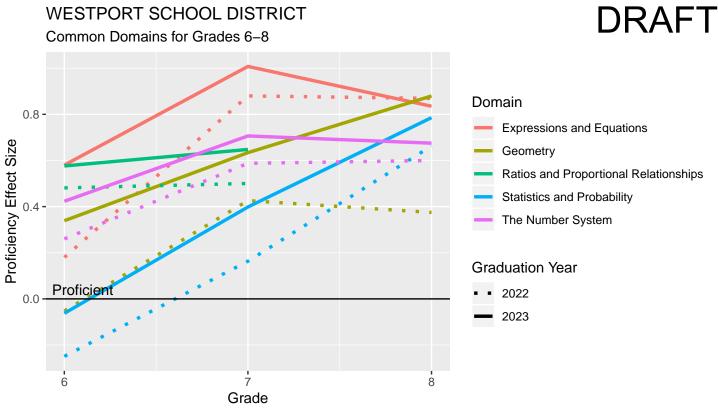




Target

- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real–world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and intege exponents.

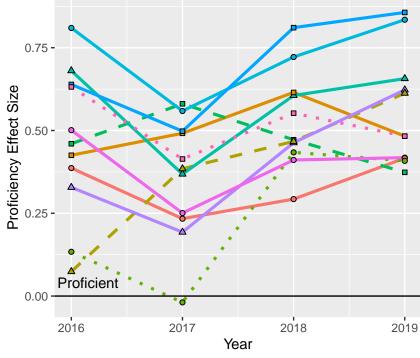




Students who stayed in district

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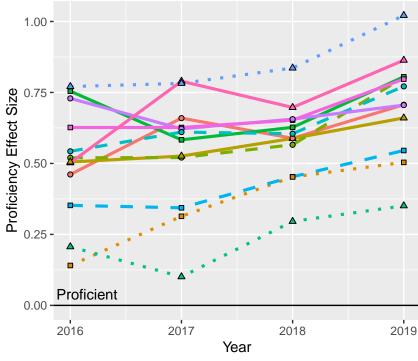




solid = Major, dashed = Supporting, dotted = Additional

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
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- patterns in arithmetic. Understand concepts of area and relate area to multiplication and to addition.
- Understand properties of multiplication and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi-digit arithmetic.

Grade 4 Target Performance



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Target

DRAFT

Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.

Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

Extend understanding of fraction equivalence and ordering. Gain familiarity with factors and

multiples. Generalize place value understanding for

multi-digit whole numbers.

Generate and analyze patterns.

Represent and interpret data.

Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

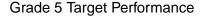
understand concepts of angle and measure angles. Understand decimal notation for

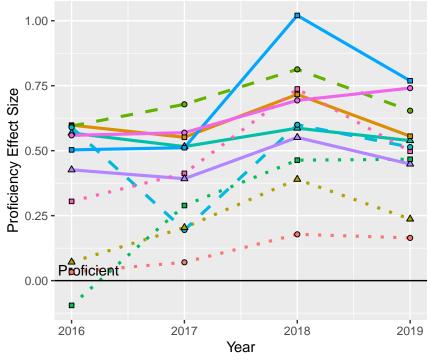
fractions, and compare decimal fractions. Use place value understanding and

properties of operations to perform multi-digit arithmetic.
Use the four operations with whole

numbers to solve problems.

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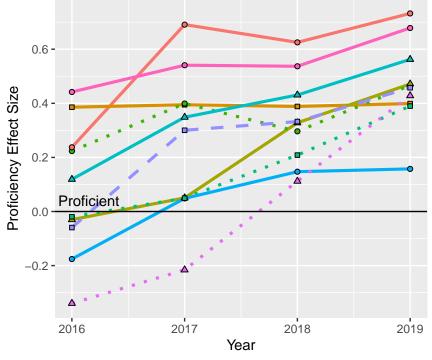


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- Analyze patterns and relationships.
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 Classify two–dimensional figures into
 - categories based on their properties.
 Convert like measurement units within a
- given measurement system.
 Graph points on the coordinate plane
- to solve real–world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

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Grade 6 Target Performance



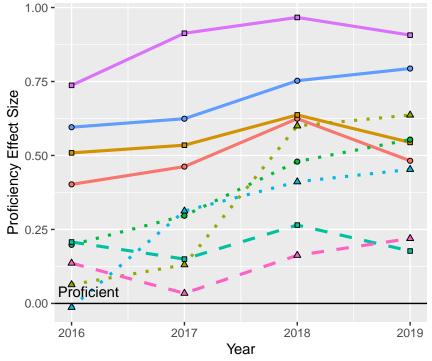
Target

- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi–digit
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- relationships between dependent and independent variables.
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- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

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Grade 7 Target Performance

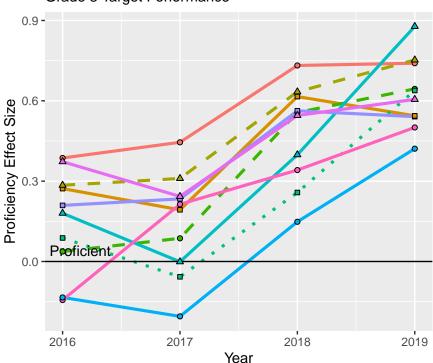


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- Analyze proportional relationships and use them to solve real-world and mathematical problems.
 - Apply and extend previous understandings of operations with fractions to add,
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- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical
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- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- about a population.

WESTPORT SCHOOL DISTRICT

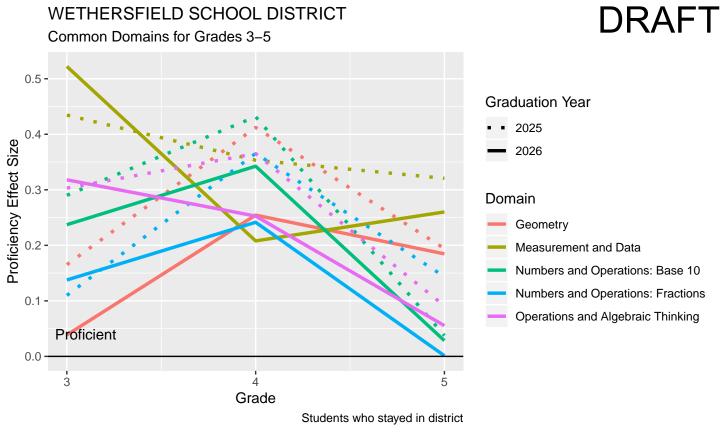
Grade 8 Target Performance



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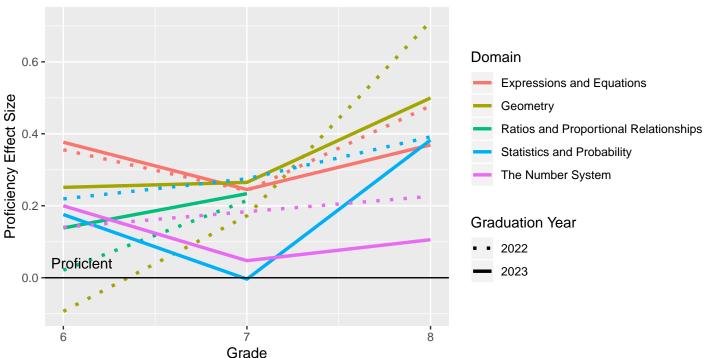
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- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real—world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and intege exponents.



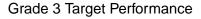
WETHERSFIELD SCHOOL DISTRICT Common Domains for Grades 6–8

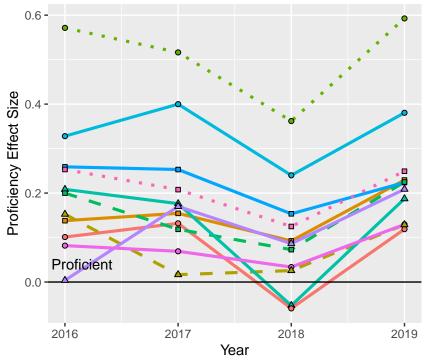




Students who stayed in district

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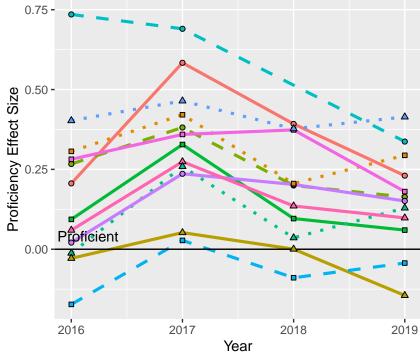




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- Develop understanding of fractions as numbers.
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- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi-digit arithmetic.

Grade 4 Target Performance



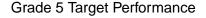
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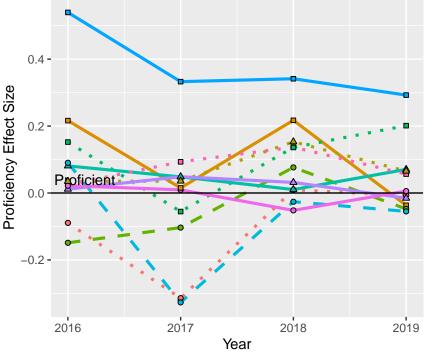
Target

DRAFT

- Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.
- Draw and identify lines and angles, and classify shapes by properties of their lines and angles.
- Extend understanding of fraction equivalence and ordering. Gain familiarity with factors and multiples.
- Generalize place value understanding for multi-digit whole numbers.
- Generate and analyze patterns.
- Represent and interpret data.
- Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.
- understand concepts of angle and measure angles. Understand decimal notation for
- fractions, and compare decimal fractions.
- Use place value understanding and properties of operations to perform multi-digit arithmetic.
 Use the four operations with whole
- numbers to solve problems.

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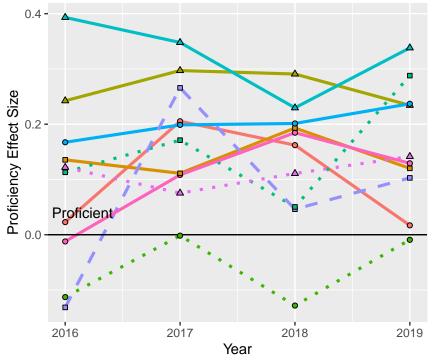
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- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.

 Classify two–dimensional figures into
- categories based on their properties.
 Convert like measurement units within a
- given measurement system.

 Graph points on the coordinate plane
- to solve real–world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance



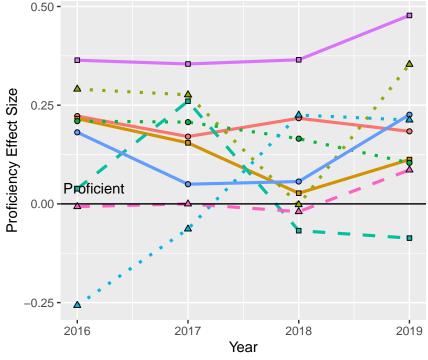
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- Apply and extend previous understandings of arithmetic to algebraic expressions.

 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi–digit
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one–variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real–world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance



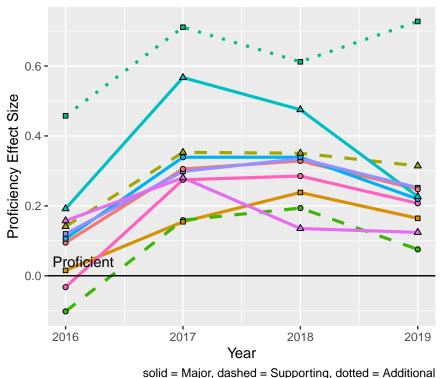
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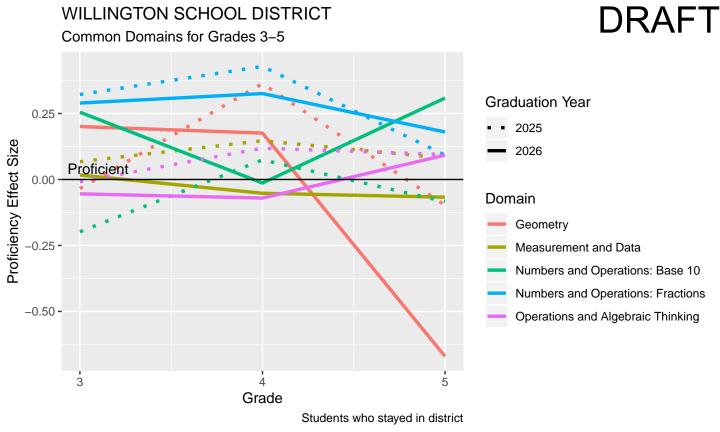
- Analyze proportional relationships and use them to solve real-world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add,
- subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical
- problems involving angle measure, area, surface area, and volume. Solve real-life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- about a population.

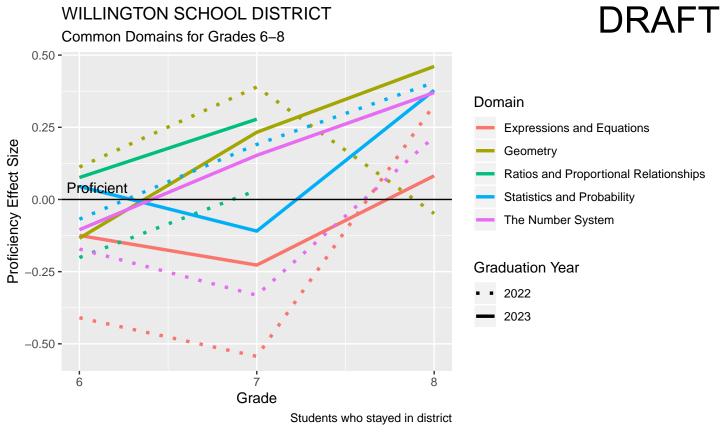
Grade 8 Target Performance



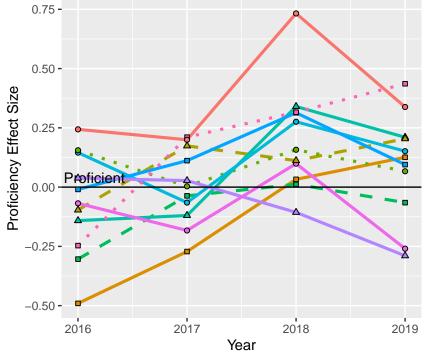


- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real—world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and integer exponents.





Grade 3 Target Performance



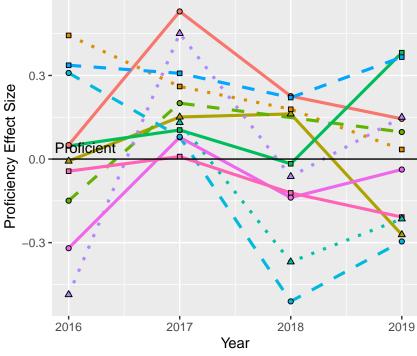
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- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
- Solve problems involving measurement and estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four
- operations, and identify and explain patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi–digit arithmetic.

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Grade 4 Target Performance



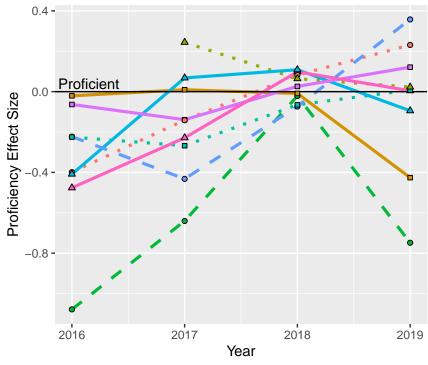
Target

- Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.
- Draw and identify lines and angles, and classify shapes by properties of their lines and angles.
- Extend understanding of fraction equivalence and ordering.
 Gain familiarity with factors and
- multiples.
 Generalize place value understanding for multi-digit whole numbers.
- Generate and analyze patterns.
 - Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.
 - understand concepts of angle and measure angles.
- Understand decimal notation for fractions, and compare decimal fractions.
- Use place value understanding and properties of operations to perform multi-digit arithmetic.

 Use the four operations with whole
- Use the four operations with whole numbers to solve problems.

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Grade 5 Target Performance



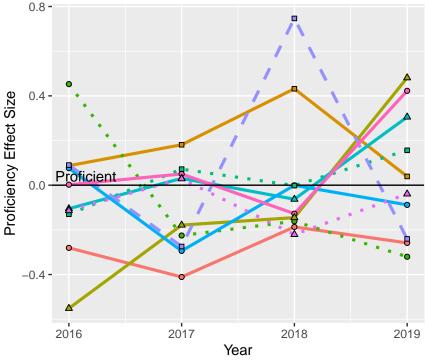
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- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.

 Classify two-dimensional figures into
- categories based on their properties.
 Convert like measurement units within a
- given measurement system.
 Graph points on the coordinate plane
- to solve real–world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance



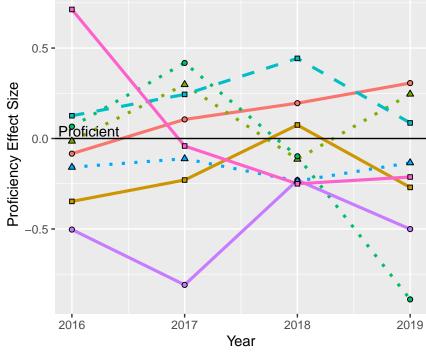
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DRAFT

- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi–digit
 numbers and find common factors and
- multiples.

 Develop understanding of statistical variability.
- Reason about and solve one-variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real–world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance



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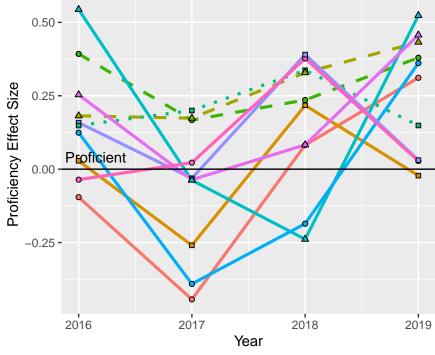
Target

- Analyze proportional relationships and use them to solve real–world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational
- numbers.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.

 Investigate chance processes and
- develop, use, and evaluate probability models.
- Solve real–life and mathematical problems involving angle measure, area, surface area, and volume.
- Solve real-life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- Use random sampling to draw inference about a population.

solid = Major, dashed = Supporting, dotted = Additional

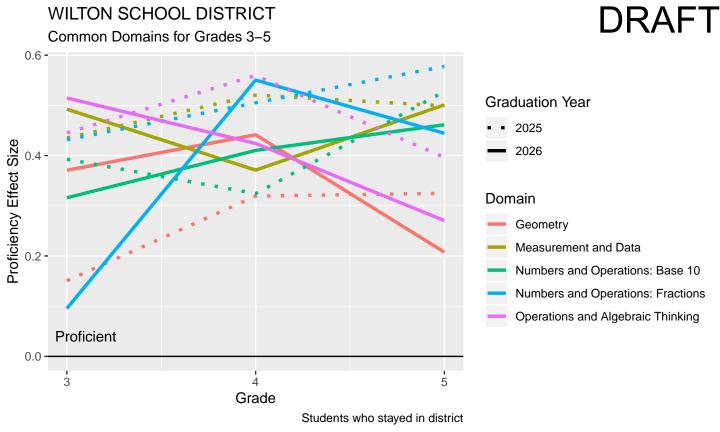
Grade 8 Target Performance



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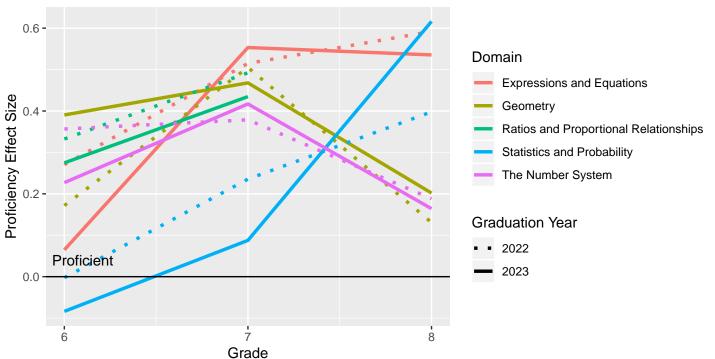
DRAFT

- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real—world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and integer exponents.



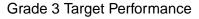
WILTON SCHOOL DISTRICT Common Domains for Grades 6-8

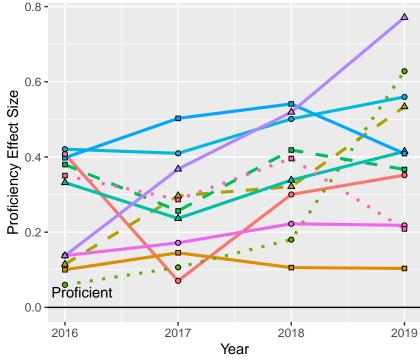
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Students who stayed in district

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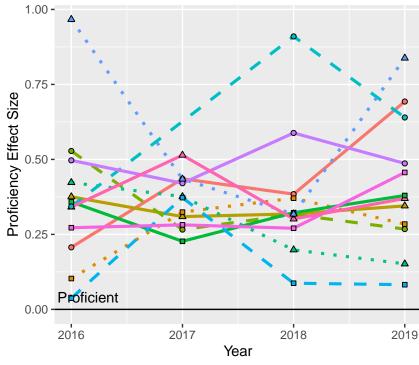




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- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division.
 Solve problems involving measurement and
 - Solve problems involving measurement and
 estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four
- operations, and identify and explain patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi–digit arithmetic.

Grade 4 Target Performance



solid = Major, dashed = Supporting, dotted = Additional

Target

DRAFT

Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.

Draw and identify lines and angles, and classify shapes by properties of their

lines and angles. Extend understanding of fraction

equivalence and ordering. Gain familiarity with factors and multiples.

Generalize place value understanding for multi-digit whole numbers.

Generate and analyze patterns.

Represent and interpret data.

Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

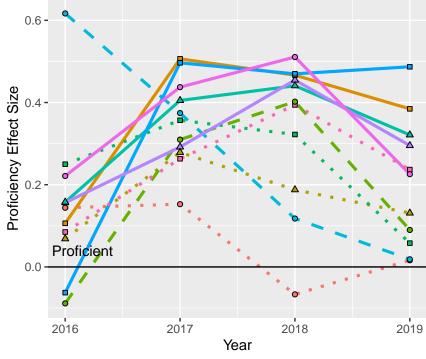
understand concepts of angle and measure angles. Understand decimal notation for

fractions, and compare decimal fractions.

Use place value understanding and properties of operations to perform multi-digit arithmetic.
Use the four operations with whole

numbers to solve problems.

Grade 5 Target Performance

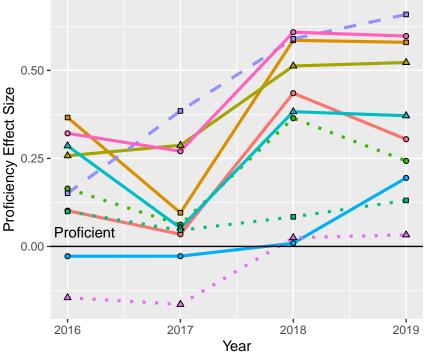


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- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two-dimensional figures into
- categories based on their properties.
 Convert like measurement units within a given measurement system.
- Graph points on the coordinate plane to solve real–world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance



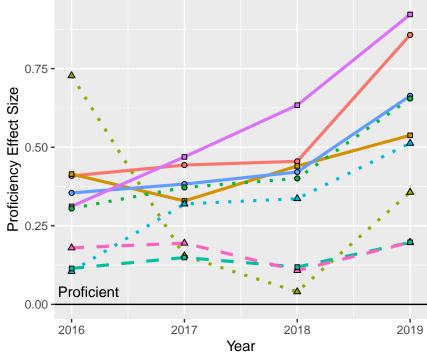
DRAFT

Target

- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi-digit
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one–variable equations and inequalities. Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real–world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

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Grade 7 Target Performance



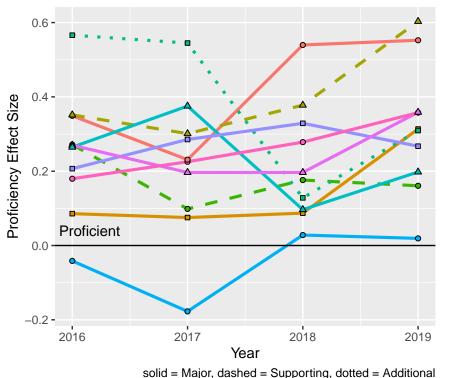
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- Analyze proportional relationships and use them to solve real—world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add,
- of operations with fractions to add, subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real–life and mathematical problems involving angle measure, area, surface area, and volume.
- Solve real-life and mathematical problems using numerical and algebraic
- expressions and equations.
 Use properties of operations to generate
- equivalent expressions.
 Use random sampling to draw inferences about a population.

Grade 8 Target Performance



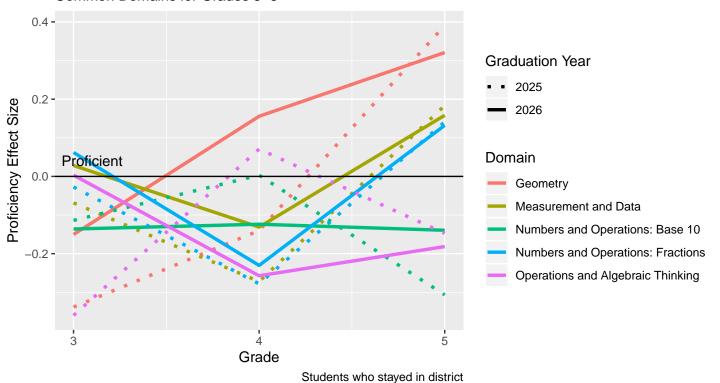


Target

- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare
- functions.
 Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by
- not rational, and approximate them by rational numbers.
 Solve real–world and mathematical
- problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and intege exponents.

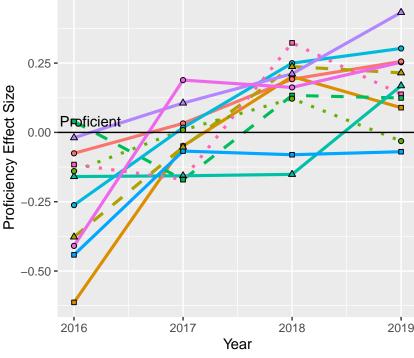
WINCHESTER SCHOOL DISTRICT Common Domains for Grades 3–5





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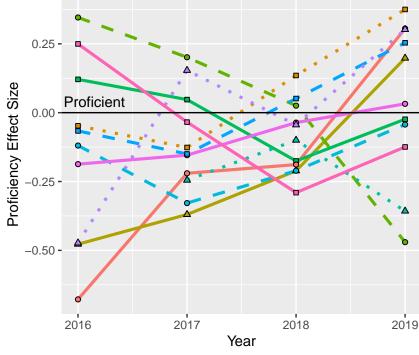




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- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
- estimation of intervals of time, liquid
- volumes, and masses of objects. Solve problems involving the four
- operations, and identify and explain patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi-digit arithmetic.

Grade 4 Target Performance



Target

Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.

DRAFT

Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

Extend understanding of fraction equivalence and ordering. Gain familiarity with factors and

multiples. Generalize place value understanding for multi-digit whole numbers.

Generate and analyze patterns.

Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

understand concepts of angle and measure angles.

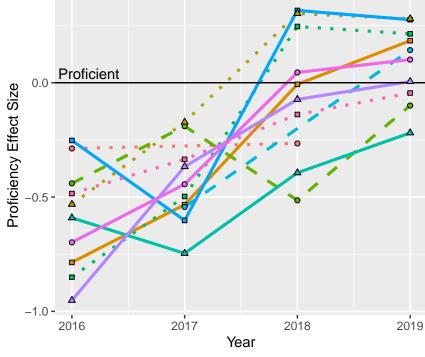
Understand decimal notation for fractions, and compare decimal fractions.

Use place value understanding and properties of operations to perform multi-digit arithmetic. Use the four operations with whole

numbers to solve problems.

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Grade 5 Target Performance

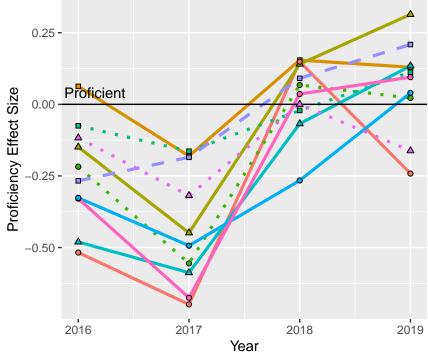


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- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two–dimensional figures into
- categories based on their properties.
 Convert like measurement units within a
- given measurement system.
 Graph points on the coordinate plane
- to solve real–world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance



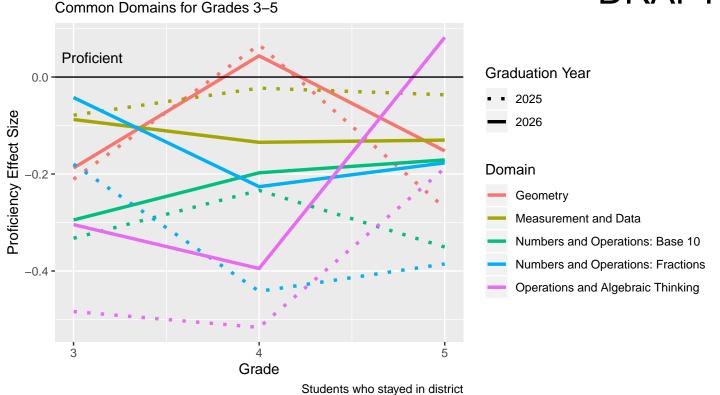
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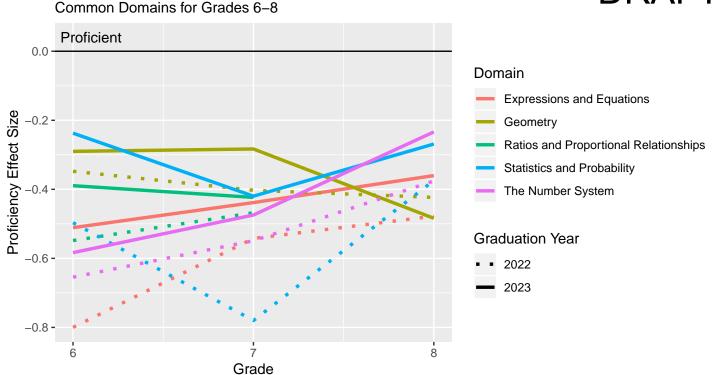
- Apply and extend previous understandings of arithmetic to algebraic expressions.

 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi–digit
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one-variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real–world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.



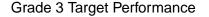


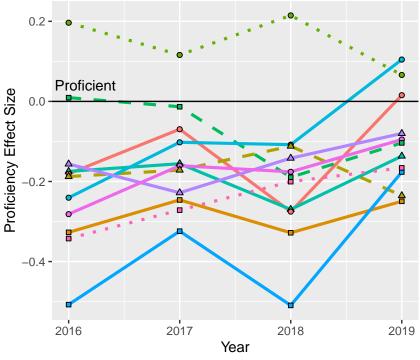
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Students who stayed in district

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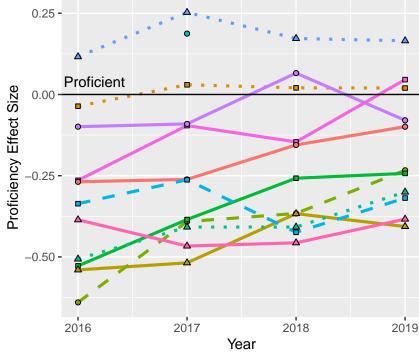




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- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division.
 Solve problems involving measurement and
- Solve problems involving measurement and estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four
- operations, and identify and explain patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
 Use place value understanding and
- properties of arithmetic to perform multi–digit arithmetic.

Grade 4 Target Performance



solid = Major, dashed = Supporting, dotted = Additional

Target

DRAFT

Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.

Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

Extend understanding of fraction equivalence and ordering. Gain familiarity with factors and multiples.

Generalize place value understanding for multi-digit whole numbers.

Generate and analyze patterns.

Represent and interpret data.

Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

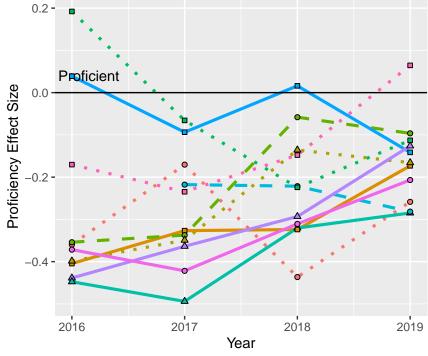
understand concepts of angle and measure angles. Understand decimal notation for

fractions, and compare decimal fractions.

Use place value understanding and properties of operations to perform multi-digit arithmetic.
Use the four operations with whole

numbers to solve problems.

Grade 5 Target Performance



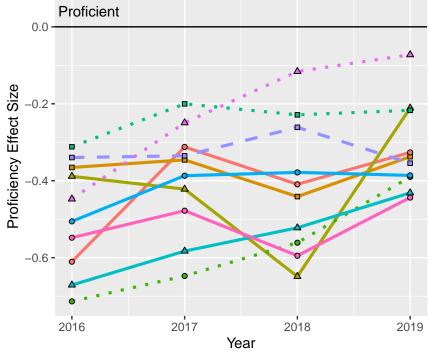
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- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two–dimensional figures into
- categories based on their properties.
 Convert like measurement units within a
- given measurement system.

 Graph points on the coordinate plane
- to solve real–world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance



solid = Major, dashed = Supporting, dotted = Additional

DRAFT

- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi-digit
 numbers and find common factors and
- multiples.

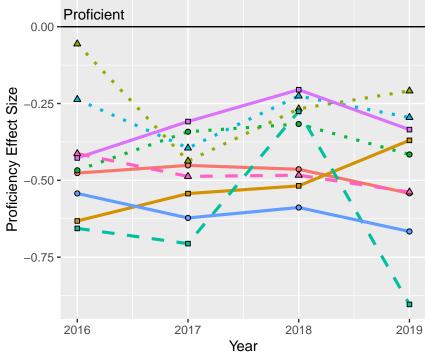
 Develop understanding of statistical
- variability.

 Reason about and solve one-variable
- equations and inequalities.

 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real–world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

WINDHAM SCHOOL DISTRICT

Grade 7 Target Performance



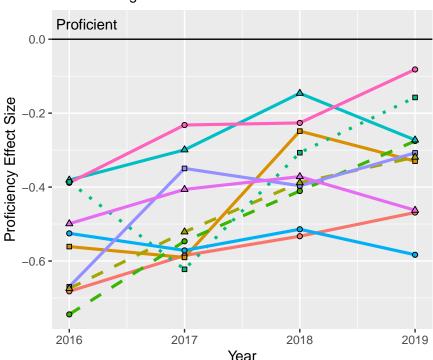
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Target

- Analyze proportional relationships and use them to solve real-world and mathematical problems. Apply and extend previous understandings
- of operations with fractions to add, subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical problems involving angle measure, area, surface area, and volume.
- Solve real-life and mathematical problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- about a population.

WINDHAM SCHOOL DISTRICT

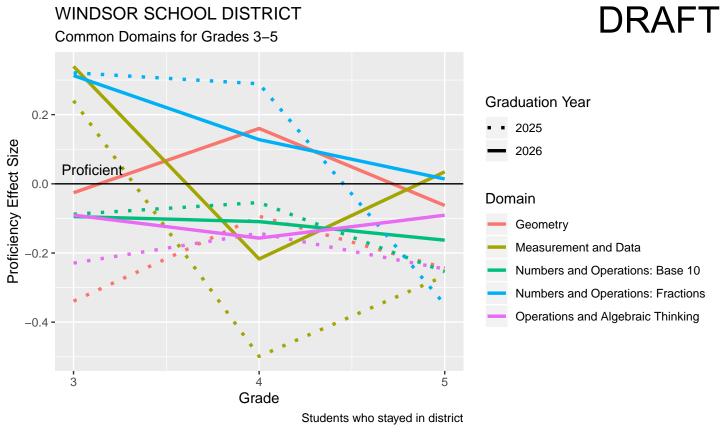
Grade 8 Target Performance



DRAFT

Target

- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real–world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and integer exponents.



WINDSOR SCHOOL DISTRICT DRAFT Common Domains for Grades 6-8 Domain Proficient 0.00 **Expressions and Equations** Geometry Ratios and Proportional Relationships Statistics and Probability -0.25 **-**The Number System **Graduation Year** -0.50 -2022 2023

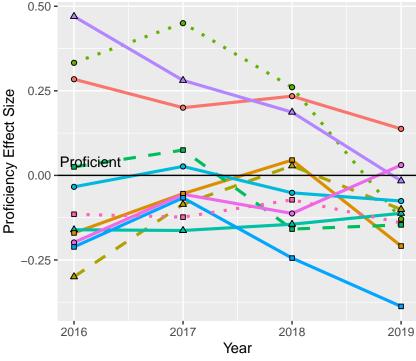
Proficiency Effect Size

Students who stayed in district

Grade

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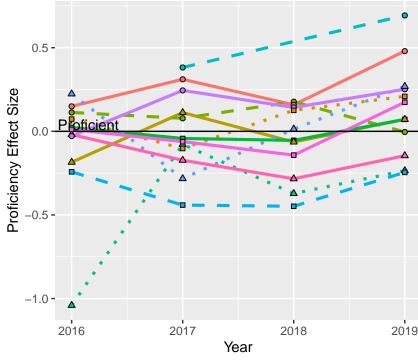




Target

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- A Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division.
- Solve problems involving measurement and estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four
- operations, and identify and explain patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi–digit arithmetic.

Grade 4 Target Performance

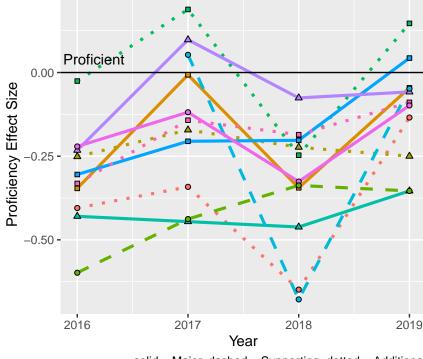


solid = Major, dashed = Supporting, dotted = Additional

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- Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.
- Draw and identify lines and angles, and classify shapes by properties of their lines and angles.
- Extend understanding of fraction equivalence and ordering. Gain familiarity with factors and multiples.
- Generalize place value understanding for multi-digit whole numbers.
- Generate and analyze patterns.
- Represent and interpret data.
- Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.
- understand concepts of angle and measure angles. Understand decimal notation for
- fractions, and compare decimal fractions.
- Use place value understanding and properties of operations to perform multi-digit arithmetic.
 Use the four operations with whole
- numbers to solve problems.

Grade 5 Target Performance

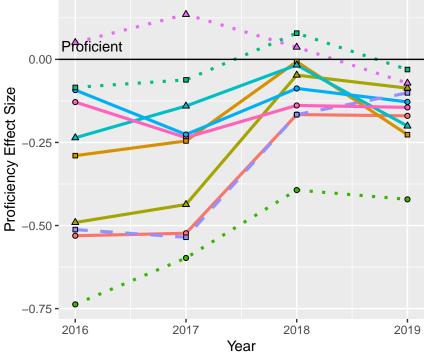


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- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions. Classify two-dimensional figures into
- categories based on their properties. Convert like measurement units within a given measurement system.
- Graph points on the coordinate plane to solve real-world and mathematical
- problems. Perform operations with multi-digit
- whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance

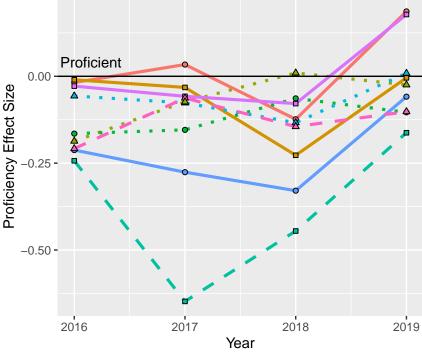


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Target

- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi–digit
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one-variable equations and inequalities. Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real–world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance



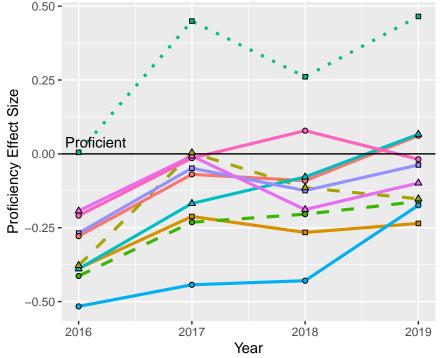
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- Analyze proportional relationships and use them to solve real—world and mathematical problems.
 - Apply and extend previous understandings of operations with fractions to add,
- of operations with fractions to add, subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical
- problems involving angle measure, area, surface area, and volume.
 Solve real-life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- Use random sampling to draw inference about a population.

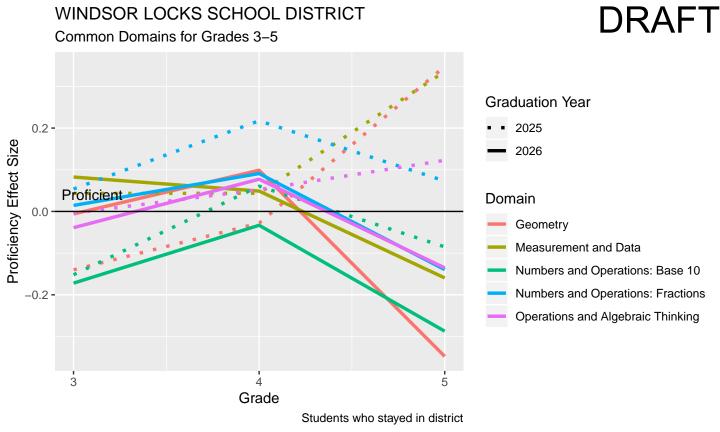
Grade 8 Target Performance

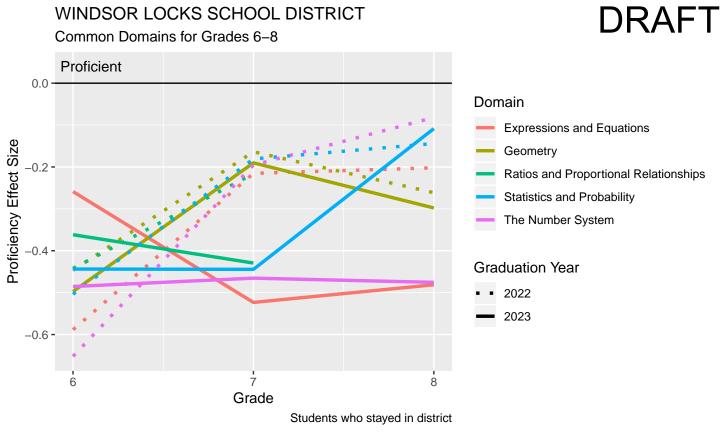




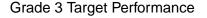
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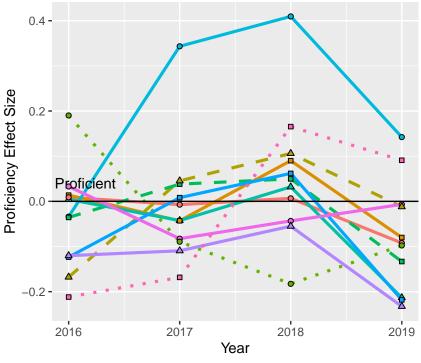
- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions: Define, evaluate, and compare
- functions. Investigate patterns of association in bivariate data.
- Know that there are numbers that are
- not rational, and approximate them by rational numbers.
- Solve real-world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities. Work with radicals and integer
- exponents.





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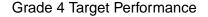


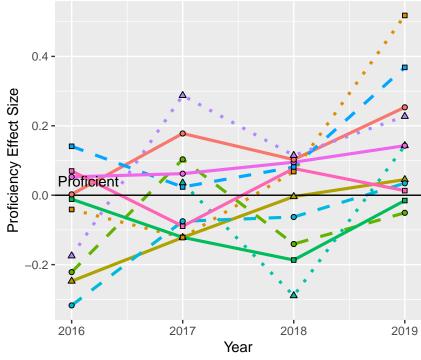


solid = Major, dashed = Supporting, dotted = Additional

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
- estimation of intervals of time, liquid
- volumes, and masses of objects. Solve problems involving the four operations, and identify and explain
- patterns in arithmetic. Understand concepts of area and relate area to multiplication and to addition.
- Understand properties of multiplication and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi-digit arithmetic.

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Target

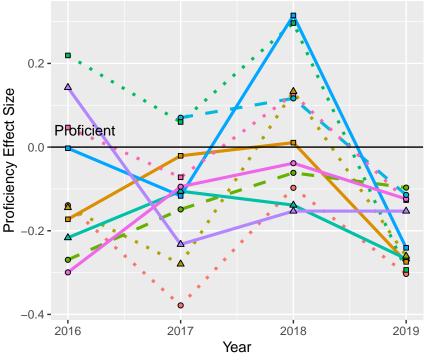
- Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.
- Draw and identify lines and angles, and classify shapes by properties of their lines and angles.
- Extend understanding of fraction equivalence and ordering.
 Gain familiarity with factors and
- multiples.
 Generalize place value understanding for multi–digit whole numbers.
- Generate and analyze patterns.
- Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.
- understand concepts of angle and measure angles.
- Understand decimal notation for fractions, and compare decimal fractions.
- Use place value understanding and properties of operations to perform multi-digit arithmetic.

 Use the four operations with whole
- Use the four operations with whol numbers to solve problems.

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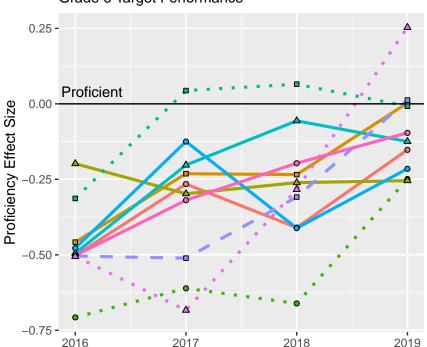


solid = Major, dashed = Supporting, dotted = Additional

- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two-dimensional figures into
- categories based on their properties.
 Convert like measurement units within a
- given measurement system.

 Graph points on the coordinate plane
- to solve real–world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance



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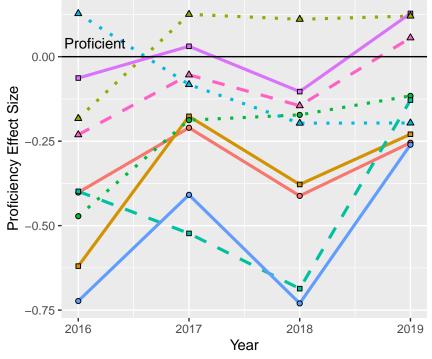
Year

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- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi-digit
 numbers and find common factors and
- multiples.

 Develop understanding of statistical variability.
- Reason about and solve one-variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real—world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance



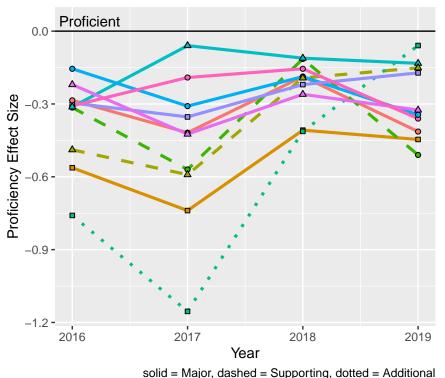
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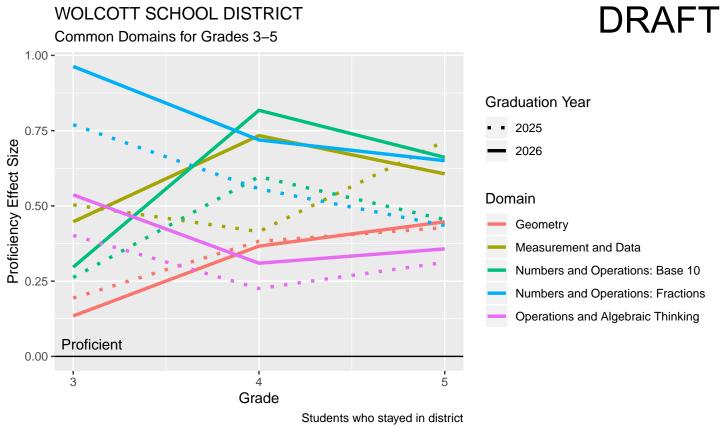
- Analyze proportional relationships and use them to solve real–world and mathematical problems.
 - Apply and extend previous understandings of operations with fractions to add,
- of operations with fractions to add, subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- • figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical
- problems involving angle measure, area, surface area, and volume. Solve real-life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- Use random sampling to draw inferences about a population.

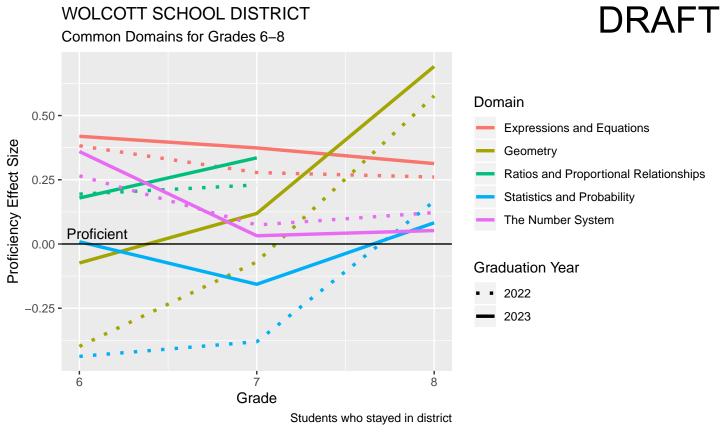
Grade 8 Target Performance





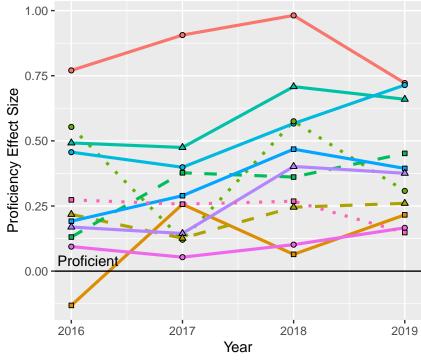
- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real—world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and intege exponents.





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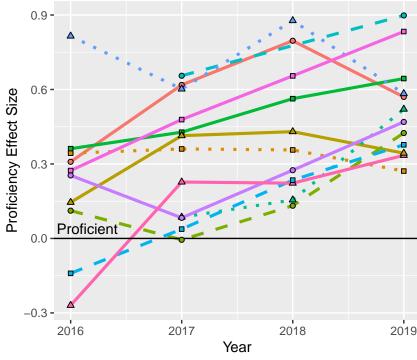
Grade 3 Target Performance



solid = Major, dashed = Supporting, dotted = Additional

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
- estimation of intervals of time, liquid
- volumes, and masses of objects. Solve problems involving the four
- operations, and identify and explain patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi-digit arithmetic.

Grade 4 Target Performance



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Target

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Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.

Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

Extend understanding of fraction equivalence and ordering. Gain familiarity with factors and

multiples.

Generalize place value understanding for multi-digit whole numbers.

Generate and analyze patterns.

Represent and interpret data.

Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

understand concepts of angle and measure angles. Understand decimal notation for

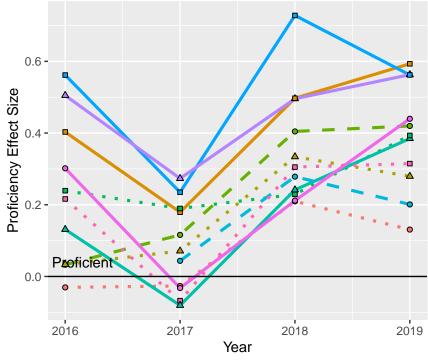
fractions, and compare decimal fractions.

Use place value understanding and properties of operations to perform multi-digit arithmetic.
Use the four operations with whole

numbers to solve problems.

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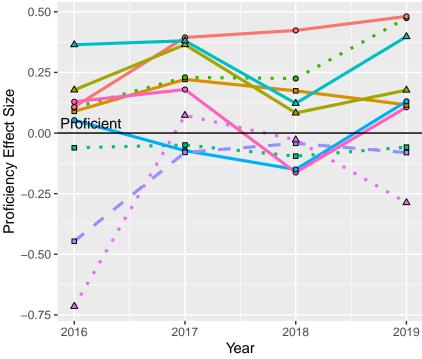


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- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two-dimensional figures into
- categories based on their properties.
 Convert like measurement units within a
- given measurement system.

 Graph points on the coordinate plane
- to solve real–world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance



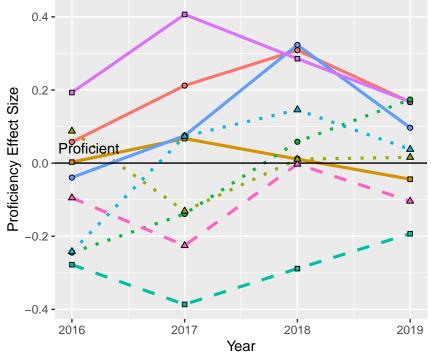
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- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational numbers.
- Compute fluently with multi-digit numbers and find common factors and
- multiples.

 Develop understanding of statistical variability.
- Reason about and solve one-variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real–world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance

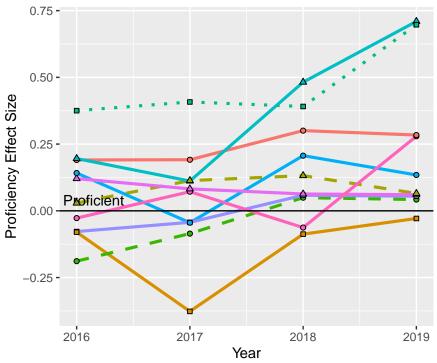


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- Analyze proportional relationships and use them to solve real-world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add,
- subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations. Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical
- problems involving angle measure, area, surface area, and volume. Solve real-life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- about a population.

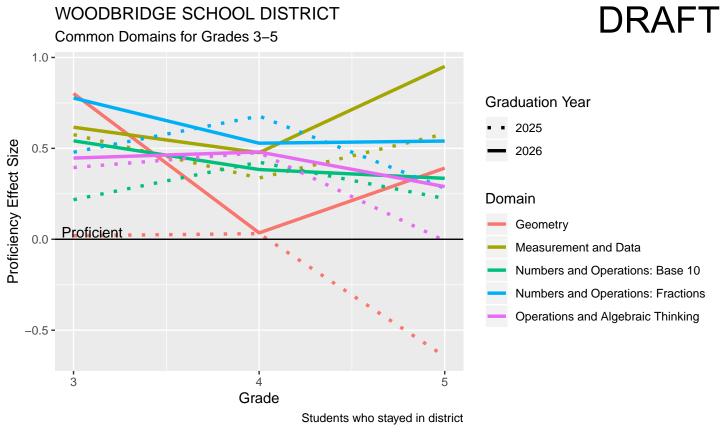
Grade 8 Target Performance



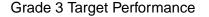
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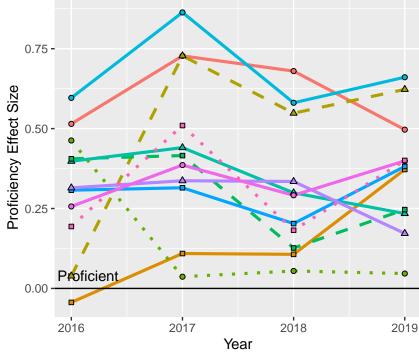
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- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
 - Solve real—world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and intege exponents.



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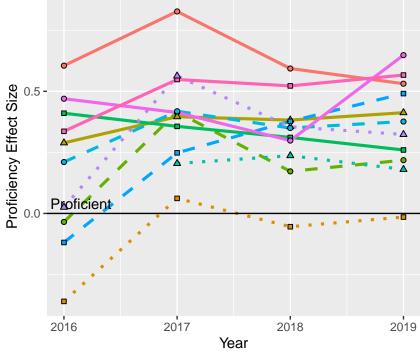


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- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
 - estimation of intervals of time, liquid
- volumes, and masses of objects. Solve problems involving the four operations, and identify and explain
- patterns in arithmetic. Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi-digit arithmetic.

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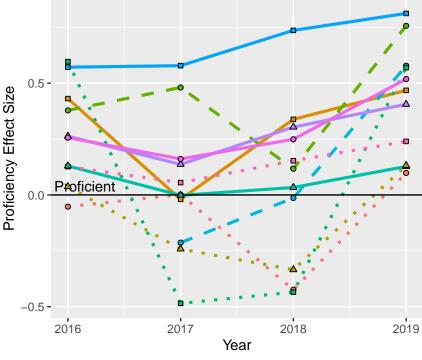


Target

- Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.
- Draw and identify lines and angles, and classify shapes by properties of their lines and angles.
- Extend understanding of fraction equivalence and ordering.
 Gain familiarity with factors and
- multiples.
 Generalize place value understanding for multi–digit whole numbers.
- Generate and analyze patterns.
 - Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.
 - understand concepts of angle and measure angles.
- Understand decimal notation for fractions, and compare decimal fractions.
 Use place value understanding and
- properties of operations to perform multi-digit arithmetic.
 Use the four operations with whole
- Use the four operations with whole numbers to solve problems.

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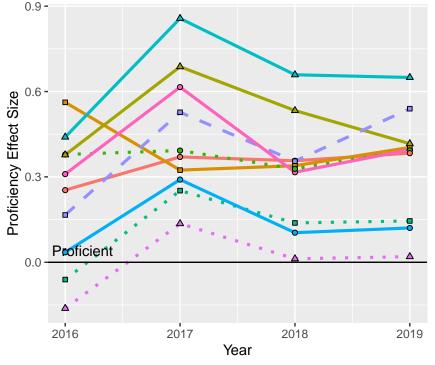


solid = Major, dashed = Supporting, dotted = Additional

- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two–dimensional figures into
- categories based on their properties.
 Convert like measurement units within a
- given measurement system.

 Graph points on the coordinate plane
- to solve real–world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

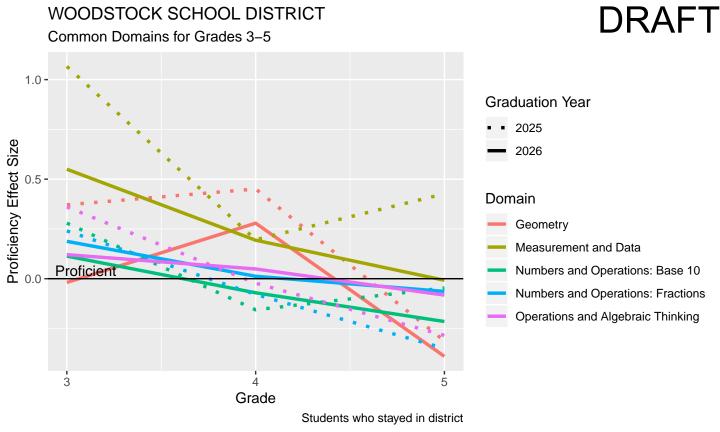
Grade 6 Target Performance

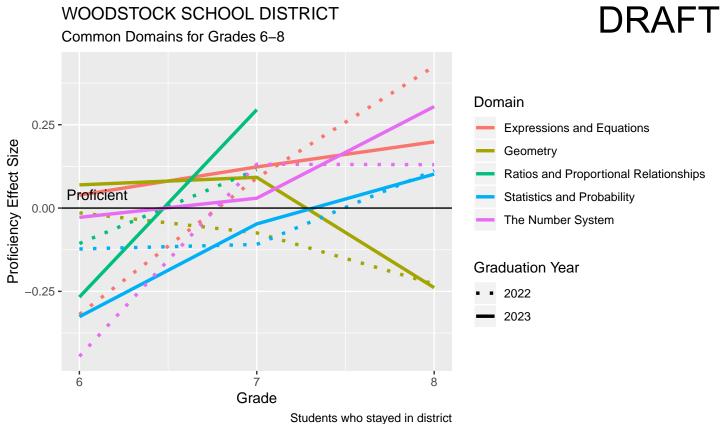


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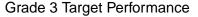
- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi-digit
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one-variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real—world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

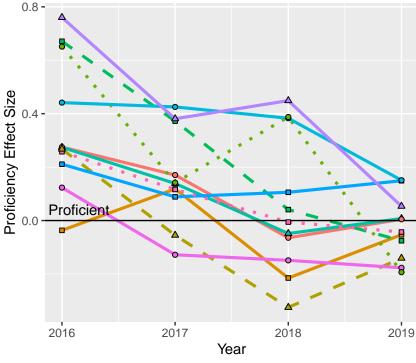




WOODSTOCK SCHOOL DISTRICT

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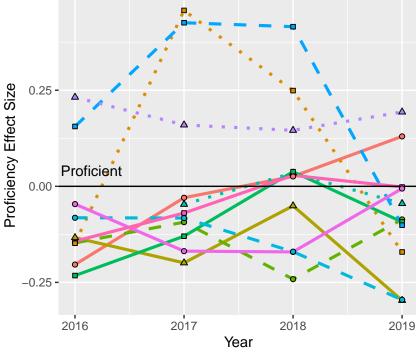
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- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
 - estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four operations, and identify and explain patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
 Use place value understanding and
- properties of arithmetic to perform multi-digit arithmetic.

WOODSTOCK SCHOOL DISTRICT

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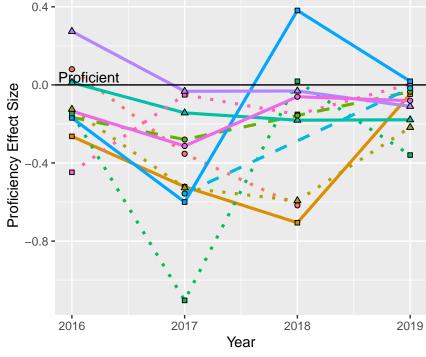


Target

- Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.
- Draw and identify lines and angles, and classify shapes by properties of their lines and angles.
- Extend understanding of fraction equivalence and ordering.
 Gain familiarity with factors and
- multiples.
 Generalize place value understanding for multi-digit whole numbers.
- Generate and analyze patterns.
- Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.
- understand concepts of angle and measure angles.
- Understand decimal notation for fractions, and compare decimal fractions.
 Use place value understanding and
- o properties of operations to perform multi-digit arithmetic.
- Use the four operations with whole numbers to solve problems.

WOODSTOCK SCHOOL DISTRICT

Grade 5 Target Performance



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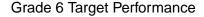
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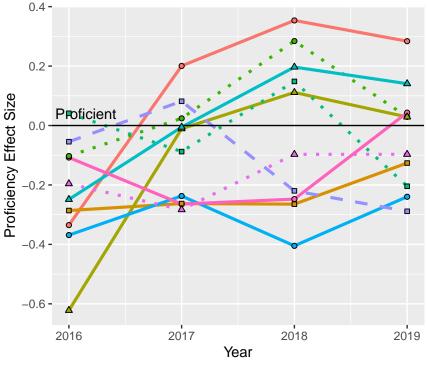
- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two-dimensional figures into
- categories based on their properties.
 Convert like measurement units within a
- given measurement system.

 Graph points on the coordinate plane
- to solve real–world and mathematical problems.
- Perform operations with multi–digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

WOODSTOCK SCHOOL DISTRICT

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Target

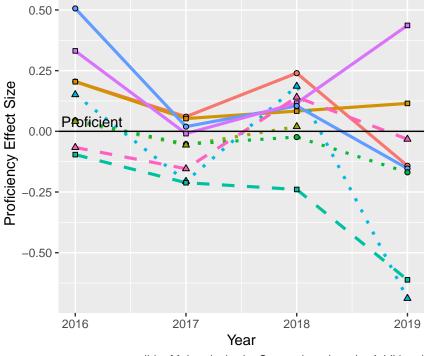
numbers.

- Apply and extend previous understandings of arithmetic to algebraic expressions.

 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- Compute fluently with multi-digit numbers and find common factors and
- multiples.
 Develop understanding of statistical variability.
- Reason about and solve one-variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real–world and mathematical
- problems involving area, surface area, and volume.
- -Δ Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

WOODSTOCK SCHOOL DISTRICT

Grade 7 Target Performance



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Target

numbers.

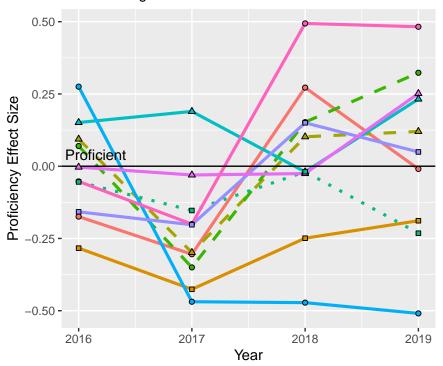
- Analyze proportional relationships
 and use them to solve real—world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical problems involving angle measure, area, surface area, and volume.
- Solve real–life and mathematical problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- Use random sampling to draw inference about a population.

solid = Major, dashed = Supporting, dotted = Additional

WOODSTOCK SCHOOL DISTRICT

Grade 8 Target Performance

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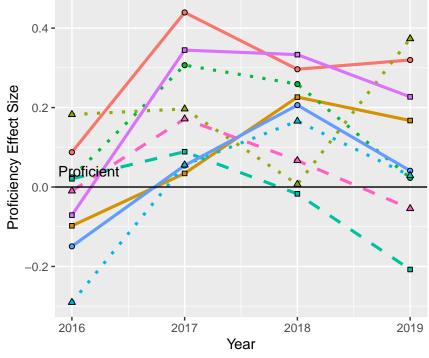


Target

- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare
- functions.
 Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real—world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and integer exponents.

solid = Major, dashed = Supporting, dotted = Additional

Grade 7 Target Performance



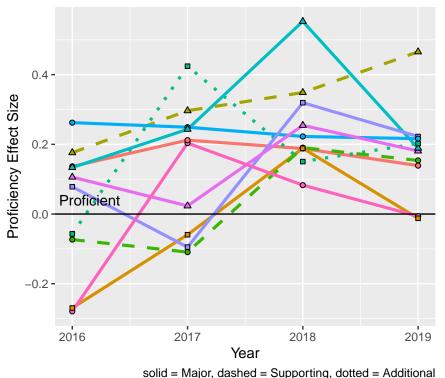
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- Analyze proportional relationships and use them to solve real–world and mathematical problems.
 - Apply and extend previous understandings of operations with fractions to add,
- of operations with fractions to add, subtract, multiply, and divide rational numbers.
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- Solve real-life and mathematical
- o problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- Use random sampling to draw inference about a population.

Grade 8 Target Performance

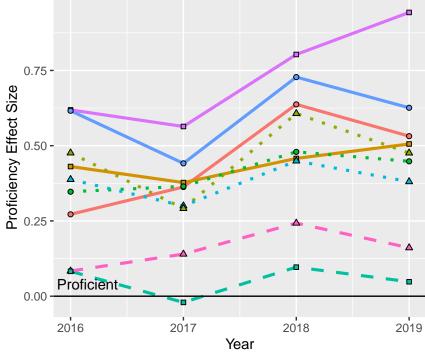




Target

- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real—world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and integer exponents.

Grade 7 Target Performance



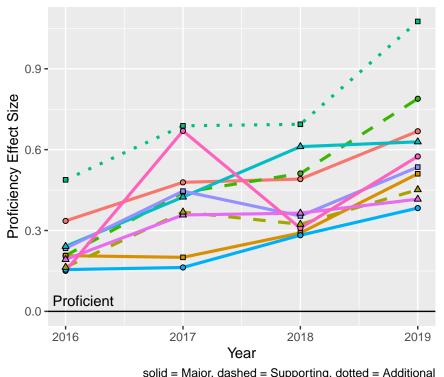
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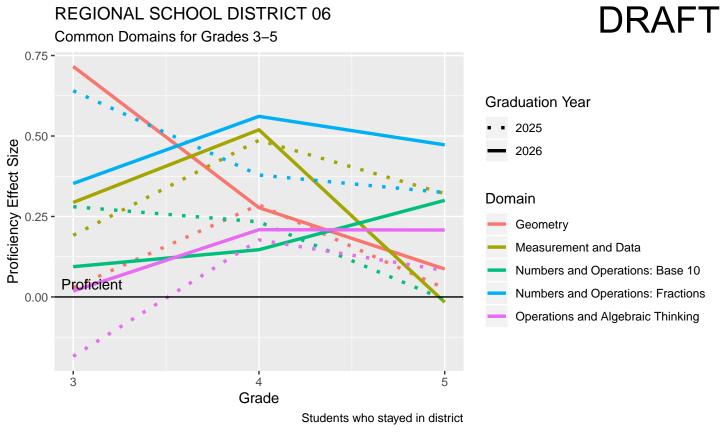
- Analyze proportional relationships and use them to solve real—world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add,
- of operations with fractions to add, subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical
- problems involving angle measure, area, surface area, and volume.
 Solve real-life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- Use random sampling to draw inferences about a population.

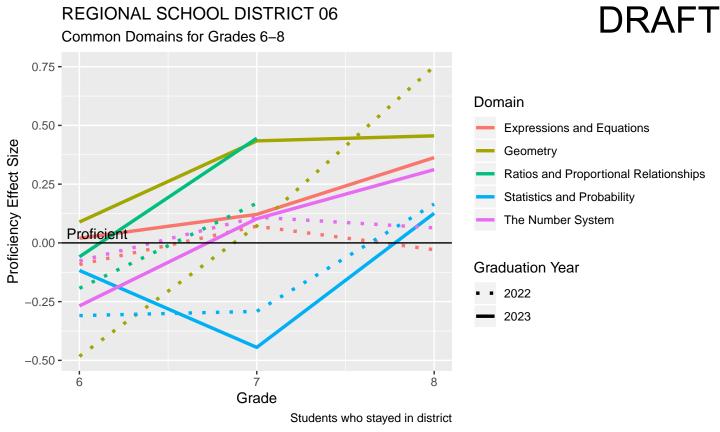
Grade 8 Target Performance

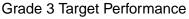


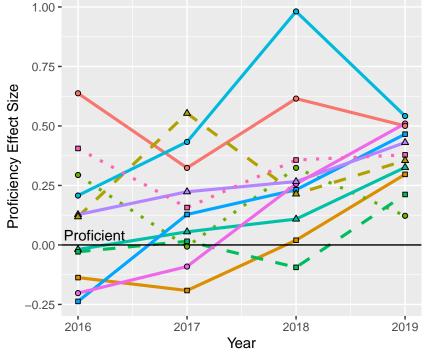


- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
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 Understand the connections between
- proportional relationships, lines, and linear equations.
- linear equations.
 Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and integer exponents.







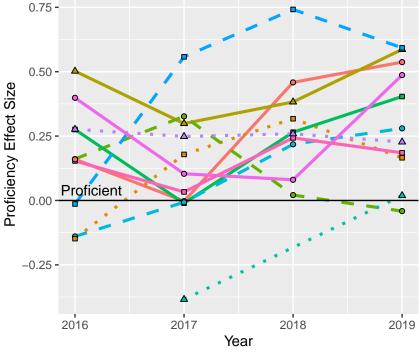


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- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
- estimation of intervals of time, liquid
- volumes, and masses of objects. Solve problems involving the four
- operations, and identify and explain patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division. Use place value understanding and
- properties of arithmetic to perform multi-digit arithmetic.

Grade 4 Target Performance



Target

DRAFT

rgeເ ■ Build fraction

Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.

 Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

Extend understanding of fraction equivalence and ordering.
Gain familiarity with factors and

multiples.
Generalize place value understanding for

multi–digit whole numbers.

Generate and analyze patterns.

 Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

understand concepts of angle and measure angles.

Understand decimal notation for fractions, and compare decimal fractions.

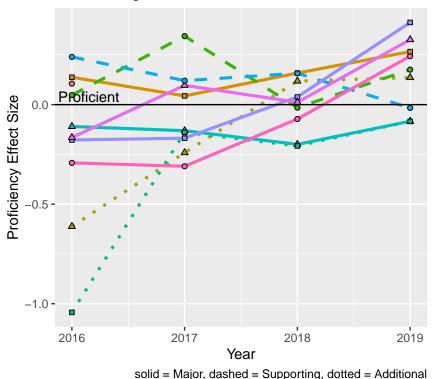
Use place value understanding and properties of operations to perform multi-digit arithmetic.

Use the four operations with whole numbers to solve problems.

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Grade 5 Target Performance

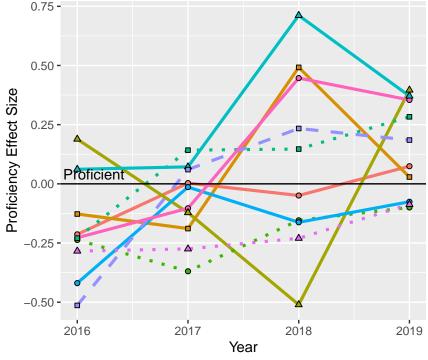




- Analyze patterns and relationships.
- Apply and extend previous understandings
 of multiplication and division to multiply and divide fractions.
- Classify two-dimensional figures into categories based on their properties.
- Convert like measurement units within a given measurement system.
- Graph points on the coordinate plane to solve real–world and mathematical
- problems.

 Perform operations with multi-digit
- whole numbers and with decimals to hundredths.
 Understand concepts of volume and
- relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance

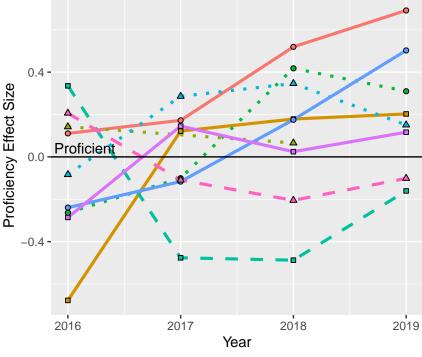


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- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi–digit
 numbers and find common factors and
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one–variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real—world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance



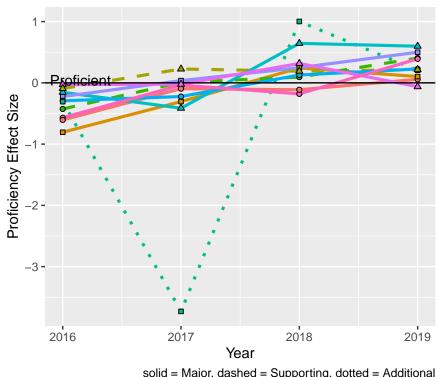
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- Analyze proportional relationships and use them to solve real—world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add,
- of operations with fractions to add, subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- • figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real–life and mathematical problems involving angle measure, area, surface area, and volume.
- Solve real–life and mathematical problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- Use random sampling to draw inference about a population.

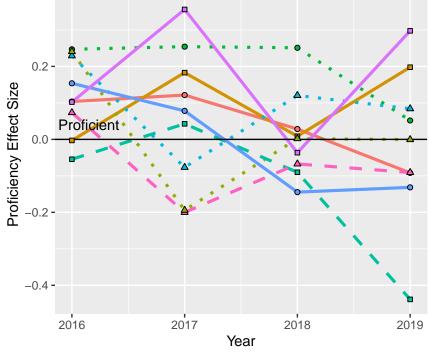
Grade 8 Target Performance





- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real–world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and intege exponents.

Grade 7 Target Performance

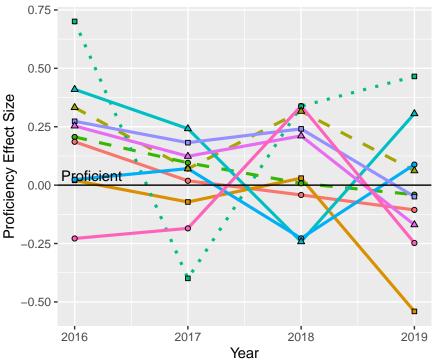


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 Use random sampling to draw inferences about a population.

Grade 8 Target Performance

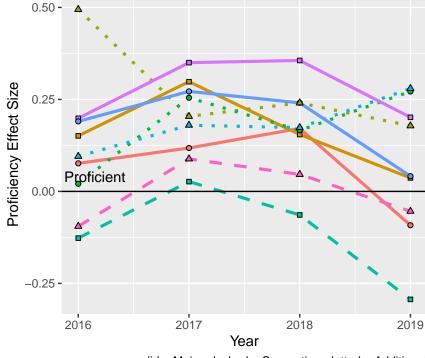


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- Use functions to model relationships between quantities.
- Work with radicals and integer exponents.

Grade 7 Target Performance

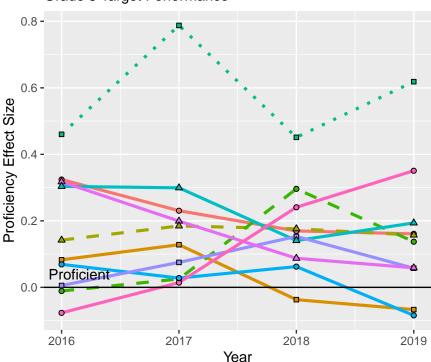


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DRAFT

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- Use properties of operations to generate
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 Use random sampling to draw inferences about a population.

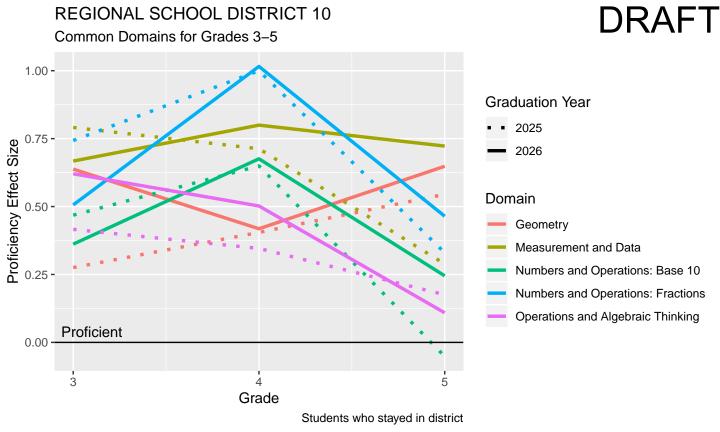
Grade 8 Target Performance

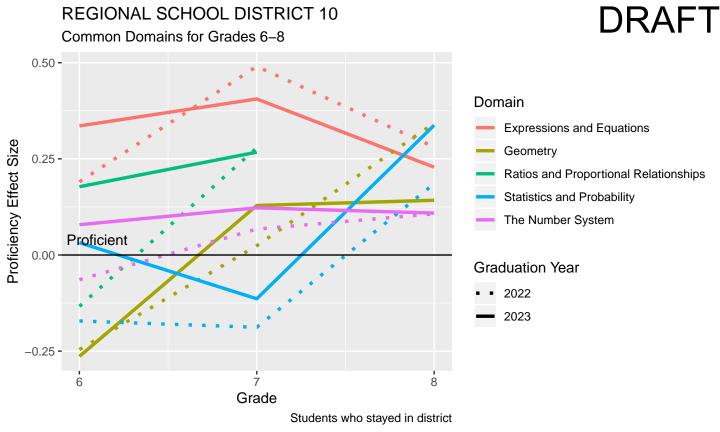


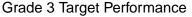
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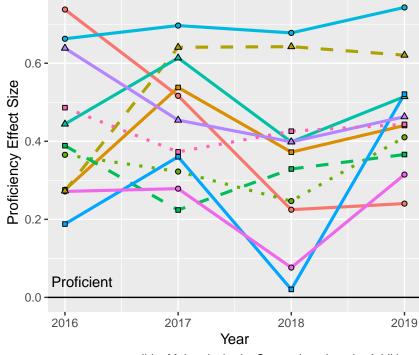
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- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and integer exponents.







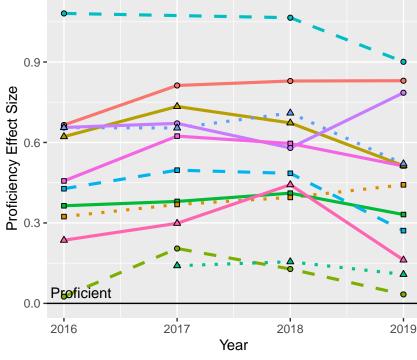


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- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
- estimation of intervals of time, liquid
- volumes, and masses of objects. Solve problems involving the four
- operations, and identify and explain patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi-digit arithmetic.

Grade 4 Target Performance



solid = Major, dashed = Supporting, dotted = Additional

Target

DRAFT

Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.

Draw and identify lines and angles, and classify shapes by properties of their

lines and angles. Extend understanding of fraction equivalence and ordering. Gain familiarity with factors and

multiples.

Generalize place value understanding for multi-digit whole numbers.

Generate and analyze patterns.

Represent and interpret data.

Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

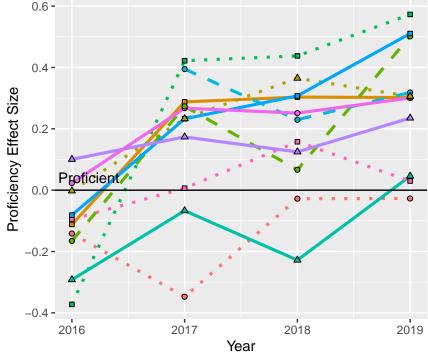
understand concepts of angle and measure angles. Understand decimal notation for

fractions, and compare decimal fractions. Use place value understanding and

properties of operations to perform multi-digit arithmetic.
Use the four operations with whole

numbers to solve problems.

Grade 5 Target Performance



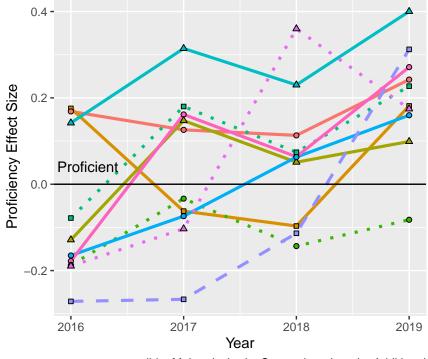
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- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two–dimensional figures into
- categories based on their properties.
 Convert like measurement units within a
- given measurement system.

 Graph points on the coordinate plane
- to solve real–world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance

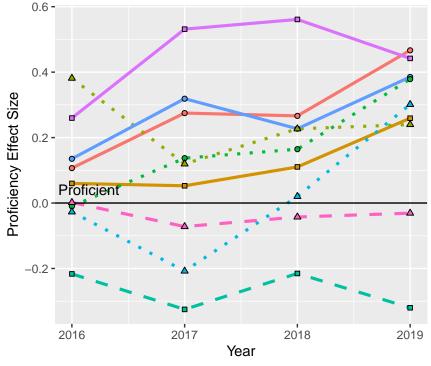


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DRAFT

- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi-digit
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one-variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real–world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance

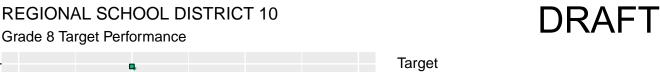


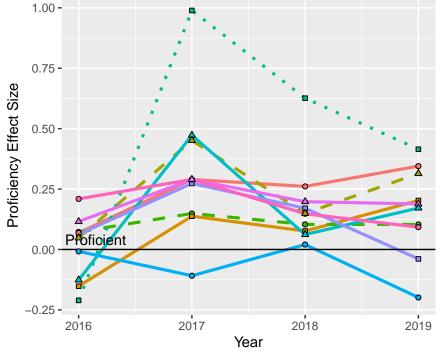
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DRAFT

- Analyze proportional relationships and use them to solve real–world and mathematical problems.
 - Apply and extend previous understandings of operations with fractions to add,
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- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical problems involving angle measure, area, surface area, and volume.
- Solve real–life and mathematical problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- Use random sampling to draw inference about a population.

Grade 8 Target Performance

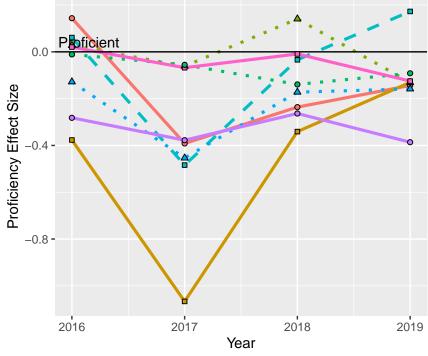




- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions: Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real-world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities. Work with radicals and integer
- exponents.

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Grade 7 Target Performance



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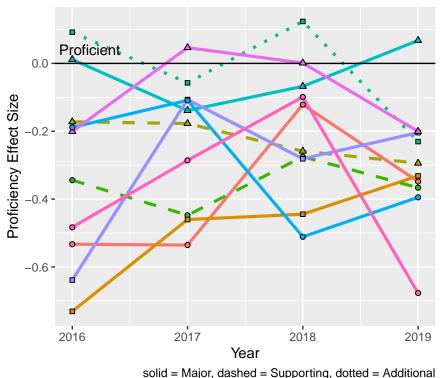
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- Analyze proportional relationships and use them to solve real–world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.
- Draw, construct and describe geometrical figures and describe the relationships
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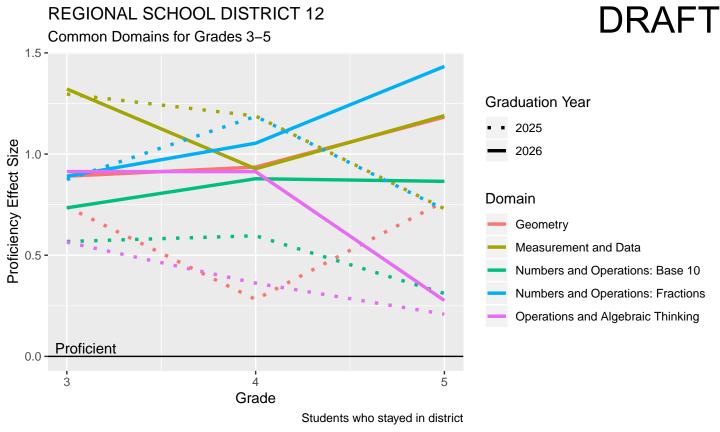
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- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
- Use random sampling to draw inferences about a population.

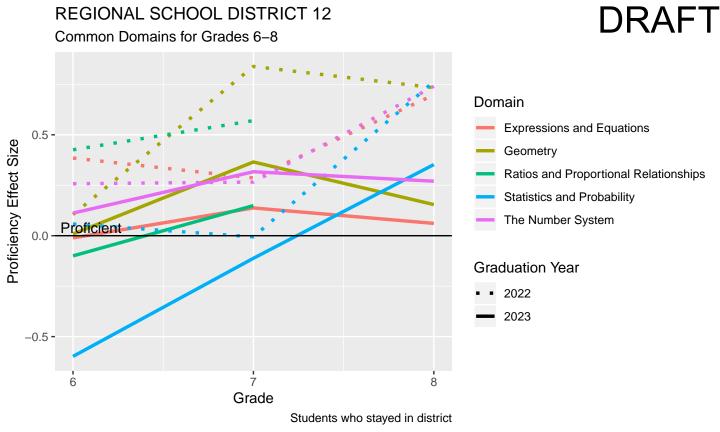
Grade 8 Target Performance





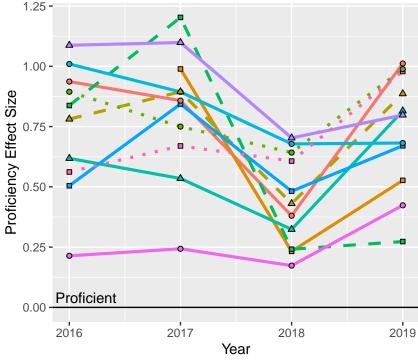
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- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and integer exponents.





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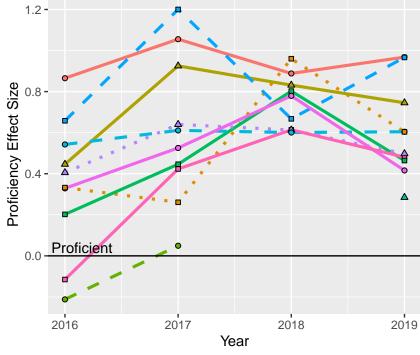




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- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
- estimation of intervals of time, liquid
- volumes, and masses of objects. Solve problems involving the four operations, and identify and explain
- patterns in arithmetic. Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi-digit arithmetic.

Grade 4 Target Performance



solid = Major, dashed = Supporting, dotted = Additional

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Target

Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.

Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

Extend understanding of fraction equivalence and ordering.
Gain familiarity with factors and

multiples.
Generalize place value understandir

Generalize place value understanding for multi–digit whole numbers.

Generate and analyze patterns.

 Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

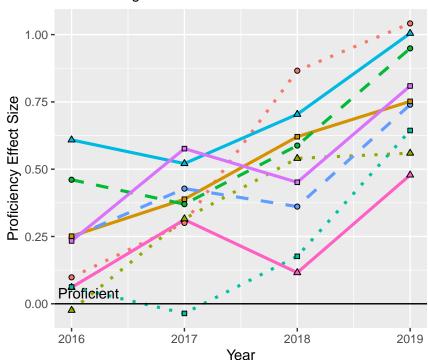
understand concepts of angle and measure angles.

Understand decimal notation for fractions, and compare decimal fractions.
Use place value understanding and

 properties of operations to perform multi-digit arithmetic.
 Use the four operations with whole

Use the four operations with whole numbers to solve problems.

Grade 5 Target Performance

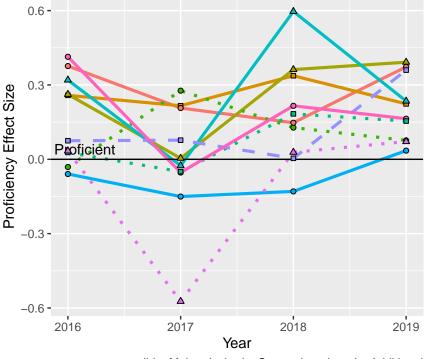


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- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
- Classify two-dimensional figures into categories based on their properties.
 Convert like measurement units within a
- given measurement system.
 Graph points on the coordinate plane
- to solve real–world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance



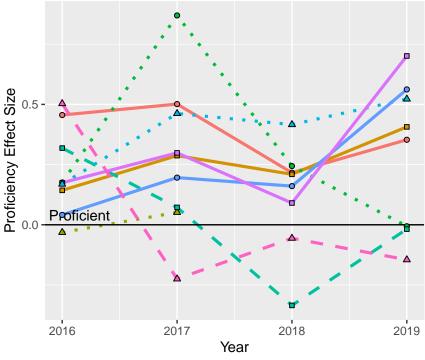
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Target

- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi-digit
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one-variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real—world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

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Grade 7 Target Performance



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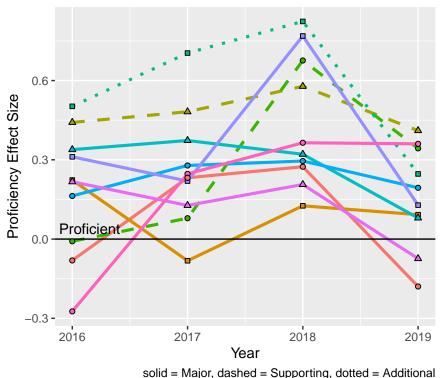
Target

numbers.

- Analyze proportional relationships and use them to solve real-world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical
- problems involving angle measure, area, surface area, and volume. Solve real-life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- about a population.

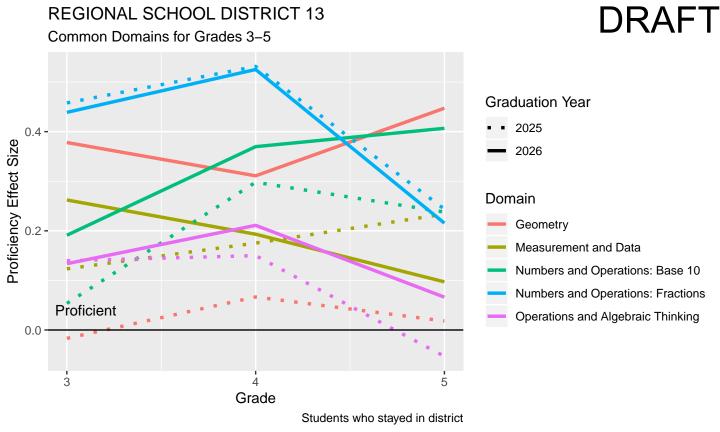
Grade 8 Target Performance

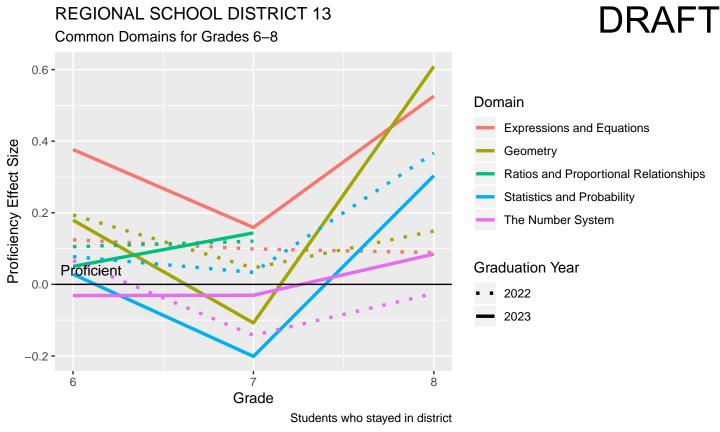




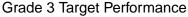
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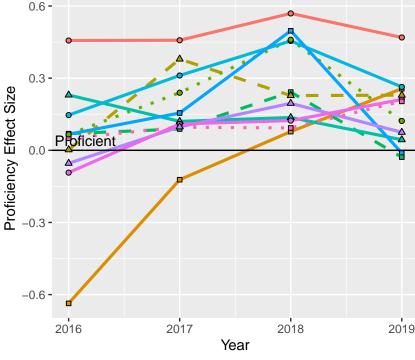
- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
 - Solve real-world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
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- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and integer exponents.





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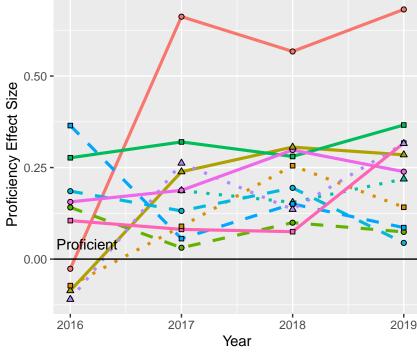




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- Develop understanding of fractions as numbers.
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- Represent and interpret data.
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- estimation of intervals of time, liquid
- volumes, and masses of objects. Solve problems involving the four operations, and identify and explain patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi-digit arithmetic.

Grade 4 Target Performance



solid = Major, dashed = Supporting, dotted = Additional

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Target

Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.

 Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

Extend understanding of fraction equivalence and ordering.

Gain familiarity with factors and multiples.

Generalize place value understanding for multi-digit whole numbers.

Generate and analyze patterns.

Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

understand concepts of angle and measure angles.

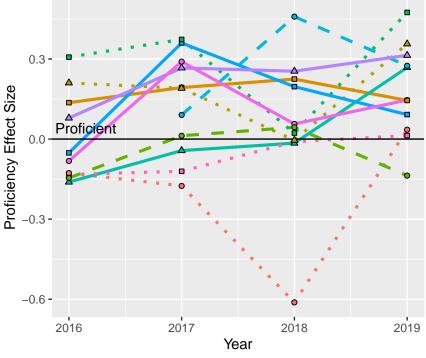
Understand decimal notation for fractions, and compare decimal fractions. □

 Use place value understanding and properties of operations to perform multi-digit arithmetic.

Use the four operations with whole numbers to solve problems.

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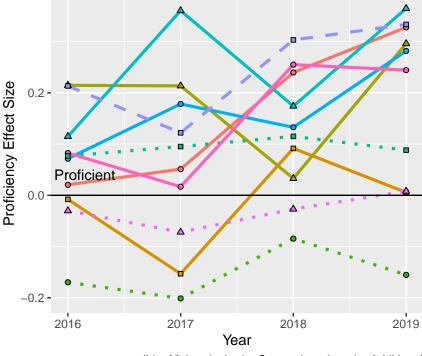
solid = Major, dashed = Supporting, dotted = Additional

- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.

 Classify two-dimensional figures into
- categories based on their properties.
 Convert like measurement units within a
- given measurement system.

 Graph points on the coordinate plane
- to solve real–world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance

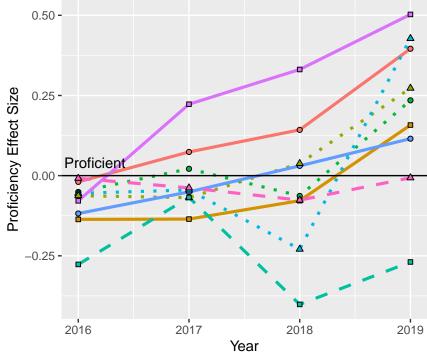


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- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi-digit
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one-variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real–world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

solid = Major, dashed = Supporting, dotted = Additional

Grade 7 Target Performance



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Target

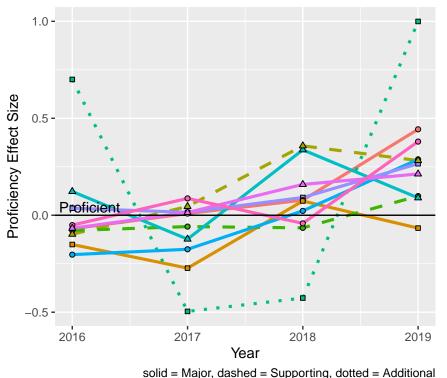
- Analyze proportional relationships and use them to solve real—world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add,
- subtract, multiply, and divide rational numbers.
 Draw informal comparative inferences
- about two populations.

 Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical problems involving angle measure, area, surface area, and volume.
- Solve real–life and mathematical problems using numerical and algebraic
- expressions and equations.
 Use properties of operations to generate
- equivalent expressions.
 Use random sampling to draw inferences about a population.

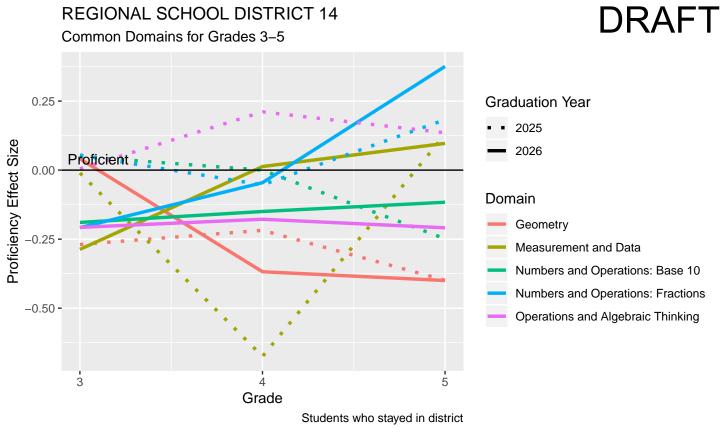
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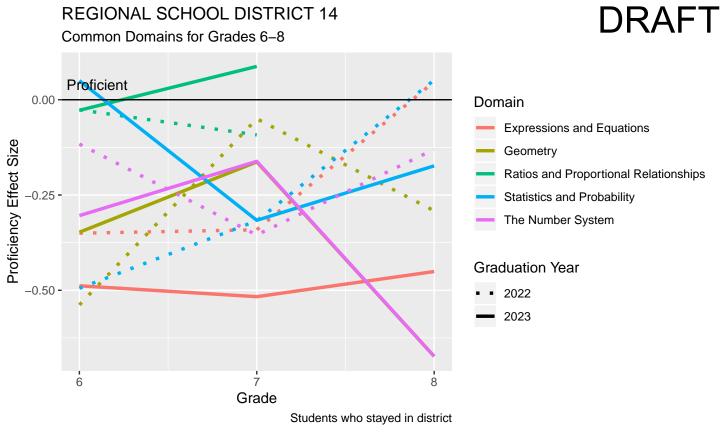
Grade 8 Target Performance





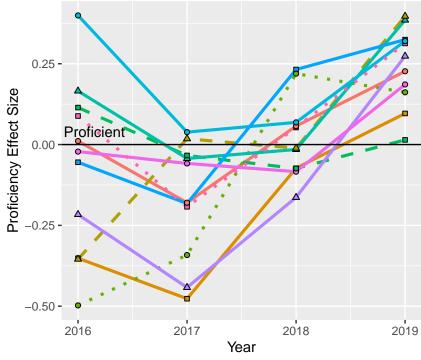
- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real—world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and integer exponents.





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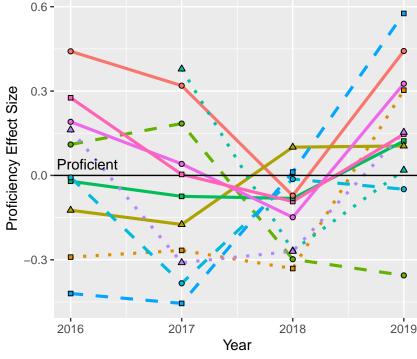




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- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division.
 Solve problems involving measurement and
- Solve problems involving measurement and estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four
- operations, and identify and explain patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi-digit arithmetic.

Grade 4 Target Performance



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DRAFT

Target

Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.

 Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

Extend understanding of fraction equivalence and ordering.
Gain familiarity with factors and

multiples.
Generalize place value understanding for multi–digit whole numbers.

Generate and analyze patterns.

Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

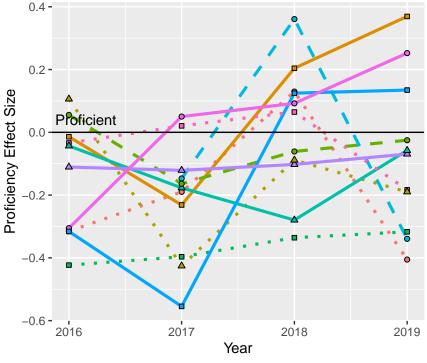
understand concepts of angle and measure angles.

Understand decimal notation for fractions, and compare decimal fractions.

 Use place value understanding and properties of operations to perform multi-digit arithmetic.

Use the four operations with whole numbers to solve problems.

Grade 5 Target Performance



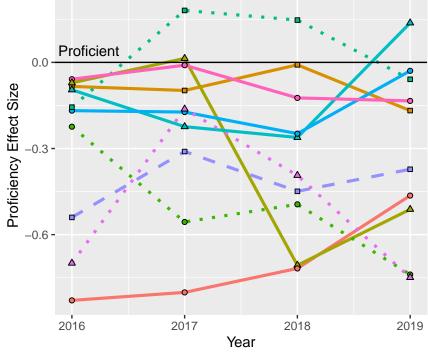
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- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two-dimensional figures into
- categories based on their properties.
 Convert like measurement units within a given measurement system.
- Graph points on the coordinate plane to solve real–world and mathematical
- to solve real–world and mathematical problems.

 Perform operations with multi–digit
- whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance



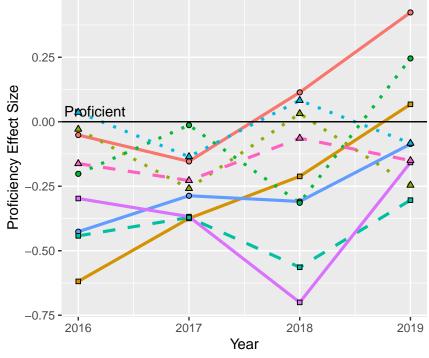
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DRAFT

- Apply and extend previous understandings of arithmetic to algebraic expressions.

 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi-digit
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one–variable equations and inequalities. Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real–world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance

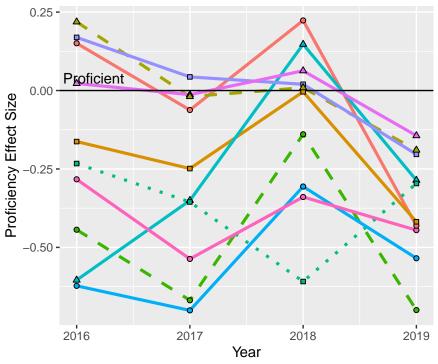


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DRAFT

- Analyze proportional relationships and use them to solve real-world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add,
- subtract, multiply, and divide rational numbers. Draw informal comparative inferences
- about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical problems involving angle measure, area,
- surface area, and volume. Solve real-life and mathematical
- problems using numerical and algebraic expressions and equations. Use properties of operations to generate
- equivalent expressions.
 Use random sampling to draw inferences
- about a population.

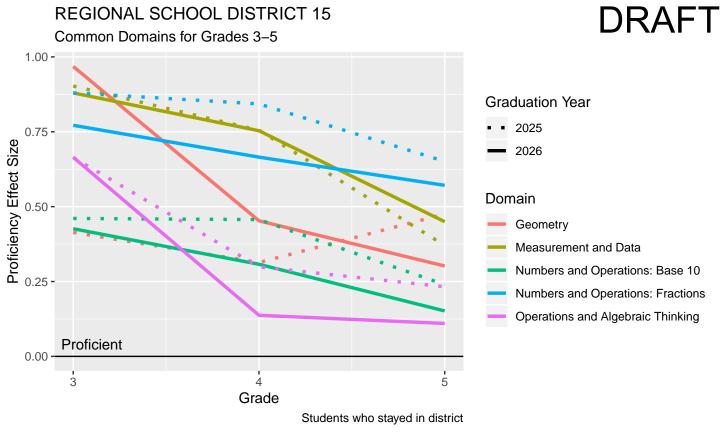
Grade 8 Target Performance

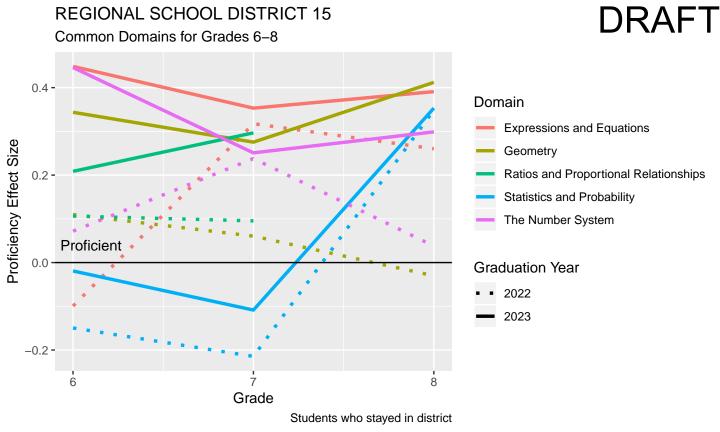


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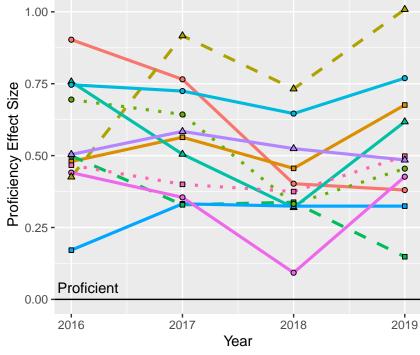
- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real—world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
- Work with radicals and integer exponents.

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Grade 3 Target Performance

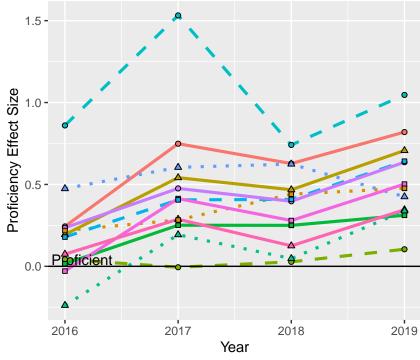


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DRAFT

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
- estimation of intervals of time, liquid
- volumes, and masses of objects. Solve problems involving the four operations, and identify and explain
- patterns in arithmetic. Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi-digit arithmetic.

Grade 4 Target Performance



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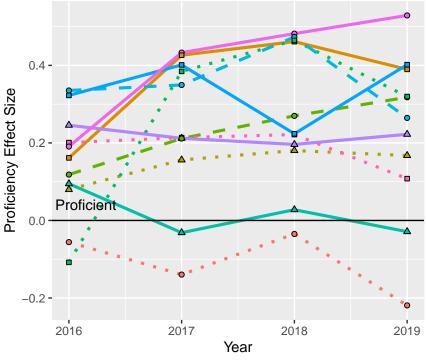
Target

DRAFT

- Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.
- Draw and identify lines and angles, and classify shapes by properties of their lines and angles.
- Extend understanding of fraction equivalence and ordering. Gain familiarity with factors and
- multiples. Generalize place value understanding for multi-digit whole numbers.
- Generate and analyze patterns.
- Represent and interpret data. Solve problems involving measurement and
- conversion of measurements from a larger unit to a smaller unit.
- understand concepts of angle and measure angles. Understand decimal notation for
- fractions, and compare decimal fractions.
- Use place value understanding and properties of operations to perform multi-digit arithmetic.
 Use the four operations with whole
- numbers to solve problems.

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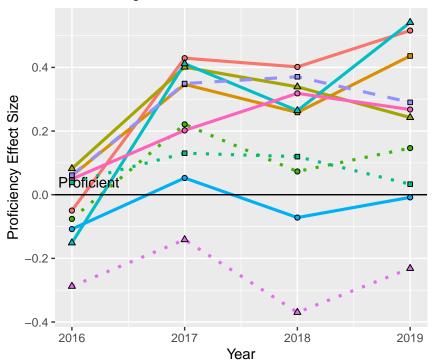


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- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.

 Classify two–dimensional figures into
- categories based on their properties.
 Convert like measurement units within a
- given measurement system.
 Graph points on the coordinate plane
- to solve real–world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance

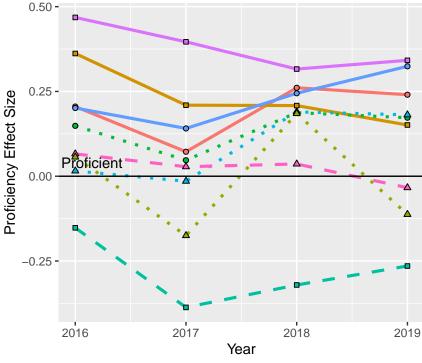


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DRAFT

- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi-digit
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one-variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real—world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance



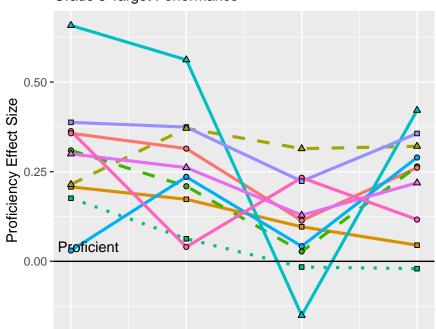
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DRAFT

- Analyze proportional relationships and use them to solve real—world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add,
- subtract, multiply, and divide rational numbers.
 - Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical problems involving angle measure, area, surface area, and volume.
- Solve real–life and mathematical problems using numerical and algebraic
- expressions and equations.
 Use properties of operations to generate equivalent expressions
- equivalent expressions.
 Use random sampling to draw inferences about a population.

Grade 8 Target Performance

2016



2017

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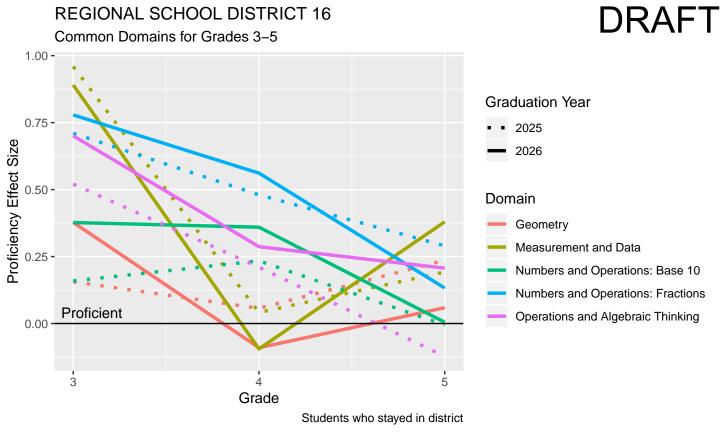
Year

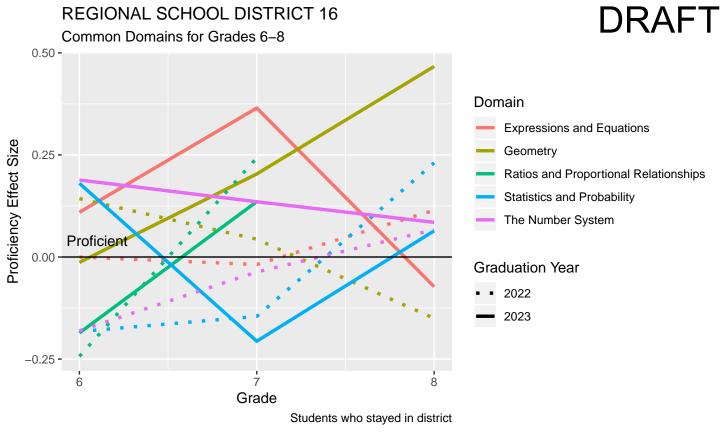
2018

2019

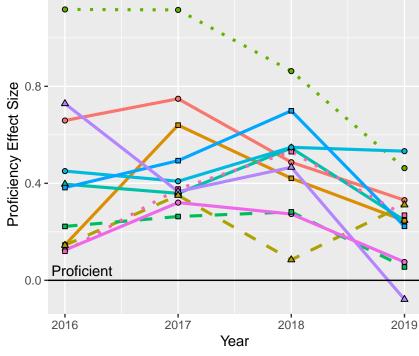
DRAFT

- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real–world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
- Work with radicals and integer exponents.





Grade 3 Target Performance

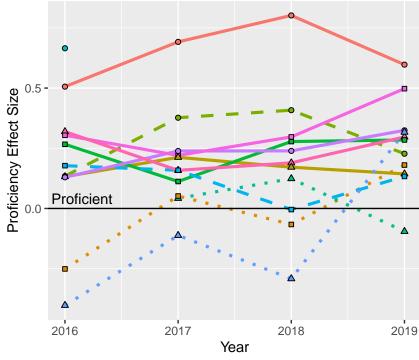


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DRAFT

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division.
- multiplication and division.
 Solve problems involving measurement and estimation of intervals of time, liquid
- volumes, and masses of objects. Solve problems involving the four
- operations, and identify and explain patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi–digit arithmetic.

Grade 4 Target Performance



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Target

DRAFT

Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.

Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

Extend understanding of fraction equivalence and ordering. Gain familiarity with factors and

multiples.

Generalize place value understanding for multi-digit whole numbers.

Generate and analyze patterns.

Represent and interpret data.

Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

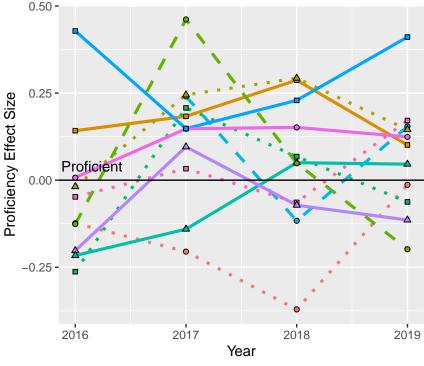
understand concepts of angle and measure angles. Understand decimal notation for

fractions, and compare decimal fractions. Use place value understanding and

properties of operations to perform multi-digit arithmetic.
Use the four operations with whole

numbers to solve problems.



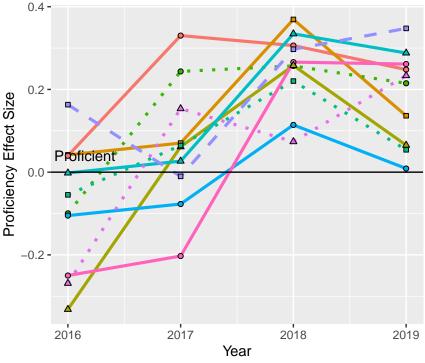


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DRAFT

- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions. Classify two-dimensional figures into
- categories based on their properties. Convert like measurement units within a given measurement system.
- Graph points on the coordinate plane to solve real-world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance

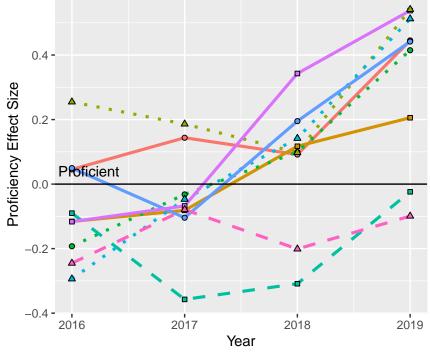


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DRAFT

- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi–digit
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one-variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real–world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance



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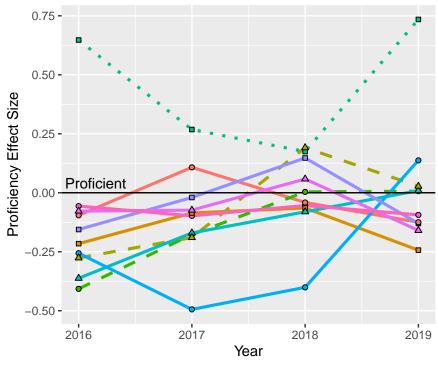
- Analyze proportional relationships and use them to solve real-world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add,
- subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical problems involving angle measure, area,
- surface area, and volume. Solve real-life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- about a population.

Grade 8 Target Performance

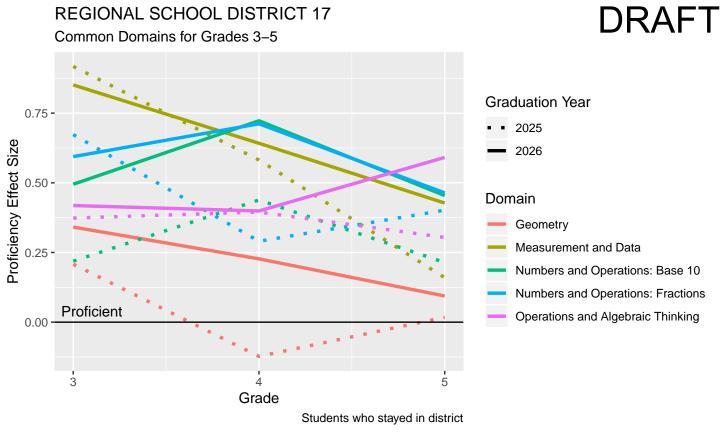


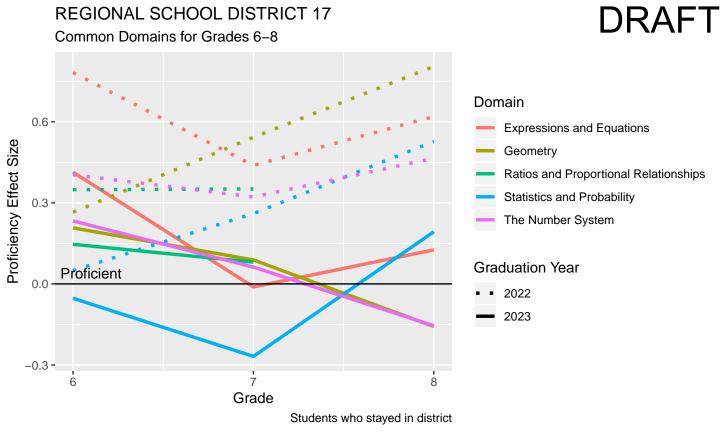


- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions: Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real-world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities. Work with radicals and integer
- exponents.

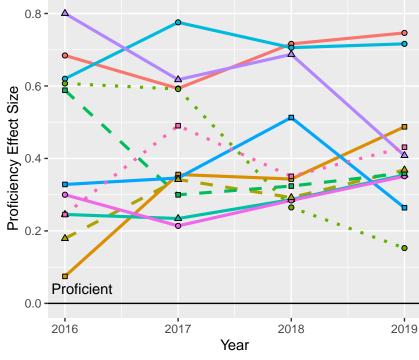


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Grade 3 Target Performance

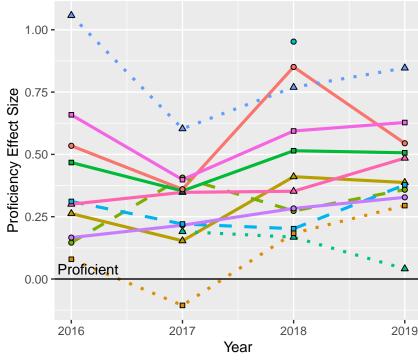


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DRAFT

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
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- volumes, and masses of objects. Solve problems involving the four
- operations, and identify and explain patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi-digit arithmetic.

Grade 4 Target Performance



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Target

DRAFT

Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.

Draw and identify lines and angles, and classify shapes by properties of their

lines and angles. Extend understanding of fraction

equivalence and ordering. Gain familiarity with factors and multiples.

Generalize place value understanding for multi-digit whole numbers.

Generate and analyze patterns.

Represent and interpret data.

Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

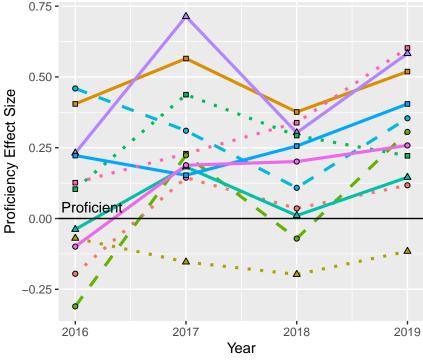
understand concepts of angle and measure angles. Understand decimal notation for

fractions, and compare decimal fractions. Use place value understanding and

properties of operations to perform multi-digit arithmetic.
Use the four operations with whole

numbers to solve problems.

Grade 5 Target Performance



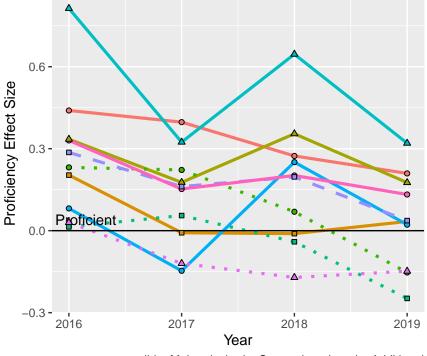
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- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two–dimensional figures into
- categories based on their properties.
 Convert like measurement units within a
- given measurement system.

 Graph points on the coordinate plane
- to solve real-world and mathematical problems.
- Perform operations with multi–digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance



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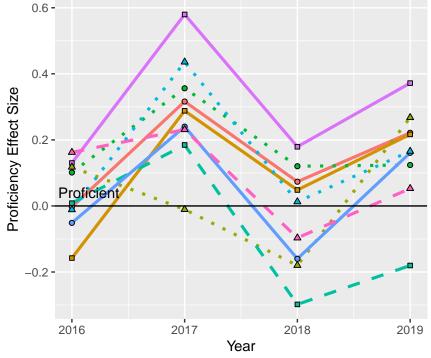
Target

- Apply and extend previous understandings of arithmetic to algebraic expressions.

 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi-digit
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one-variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real–world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

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Grade 7 Target Performance



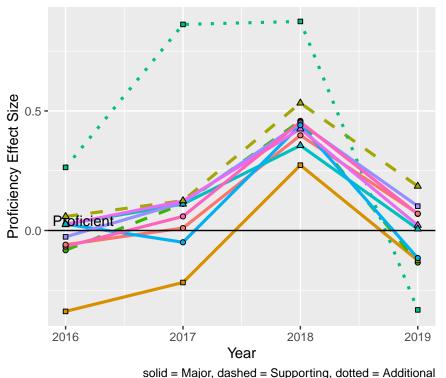
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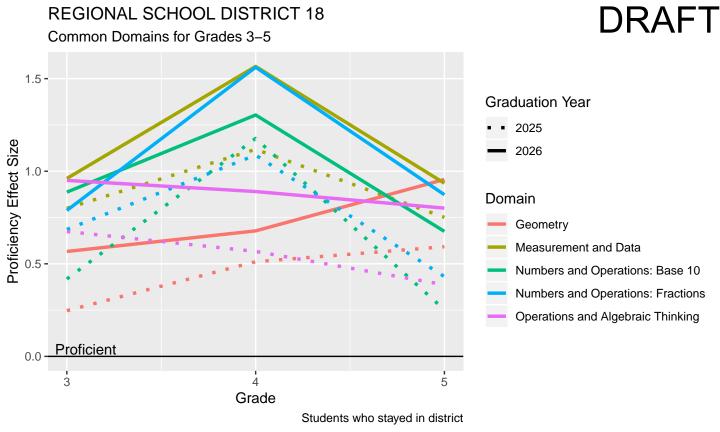
- Analyze proportional relationships and use them to solve real-world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add,
- subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical
- problems involving angle measure, area, surface area, and volume. Solve real-life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- about a population.

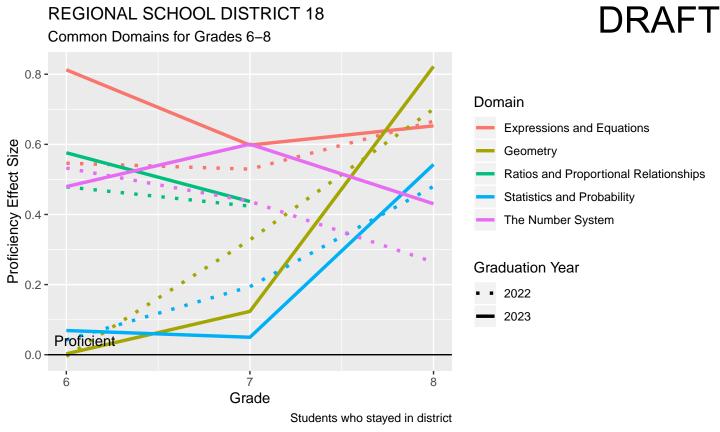
Grade 8 Target Performance





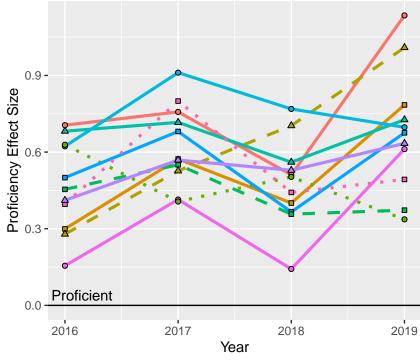
- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real—world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and integer exponents.





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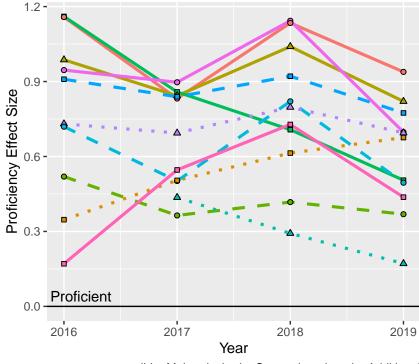




solid = Major, dashed = Supporting, dotted = Additional

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division.
 Solve problems involving measurement and
 - Solve problems involving measurement and estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four
 operations, and identify and explain
- patterns in arithmetic.
 Understand concepts of area and relate area to multiplication and to addition.
 Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi–digit arithmetic.

Grade 4 Target Performance



solid = Major, dashed = Supporting, dotted = Additional

DRAFT

Target

Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.

 Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

Extend understanding of fraction equivalence and ordering.
Gain familiarity with factors and

multiples.
Generalize place value understanding for multi-digit whole numbers.

Generate and analyze patterns.

 Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

understand concepts of angle and measure angles.

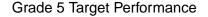
Understand decimal notation for fractions, and compare decimal fractions.

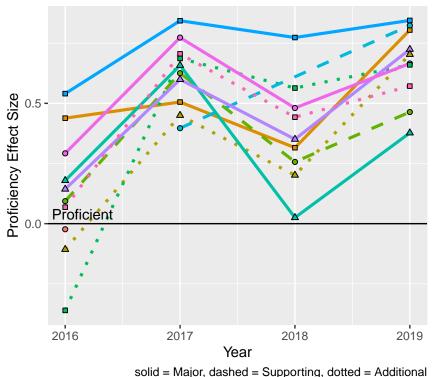
Use place value understanding and properties of operations to perform multi–digit arithmetic.

Use the four operations with whole

Use the four operations with whole numbers to solve problems.

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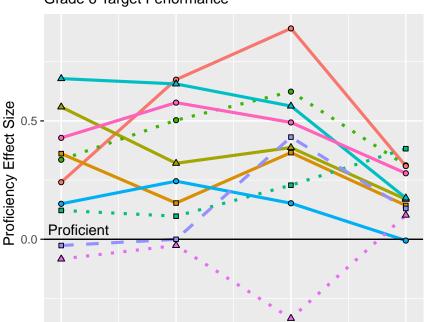


- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two-dimensional figures into
 - categories based on their properties.
 Convert like measurement units within a
- given measurement system.

 Graph points on the coordinate plane
- to solve real–world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance

2016



2017

solid = Major, dashed = Supporting, dotted = Additional

Year

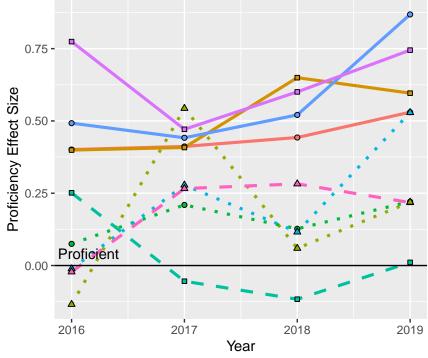
2018

2019

DRAFT

- Apply and extend previous understandings of arithmetic to algebraic expressions. Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi-digit
 numbers and find common factors and
- multiples.
 Develop understanding of statistical variability.
- Reason about and solve one–variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real—world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance



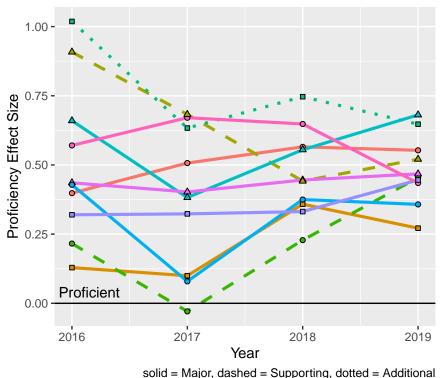
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- Analyze proportional relationships and use them to solve real-world and mathematical problems.
 - Apply and extend previous understandings
- of operations with fractions to add, subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical problems involving angle measure, area, surface area, and volume.
- Solve real-life and mathematical problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- about a population.

Grade 8 Target Performance





- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by
- rational numbers.
 Solve real–world and mathematical problems involving volume of cylinders,
- cones and spheres.
 Understand and apply the Pythagorean
- theorem.
 Understand congruence and similarity
- using physical models, transparencies, or geometry software.
 Understand the connections between
- proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and intege exponents.

CAPITOL REGION EDUCATION COUN DRAFT Common Domains for Grades 3-5 0.3 -**Graduation Year** 0.2 -2025 2026 0.1 -Domain Proficient Geometry

Measurement and Data

Numbers and Operations: Base 10

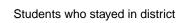
Numbers and Operations: Fractions
Operations and Algebraic Thinking

Proficiency Effect Size

-0.1 **-**

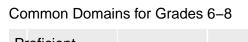
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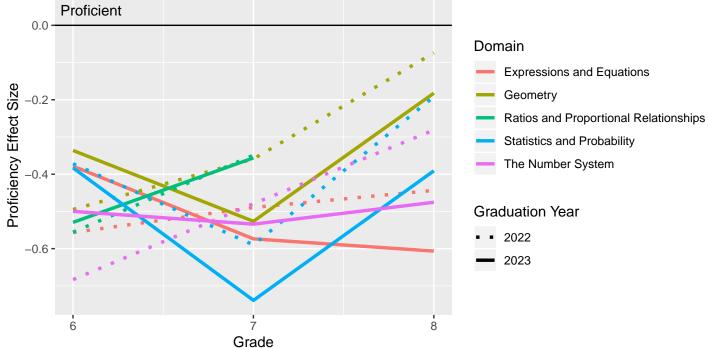
3



Grade

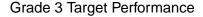
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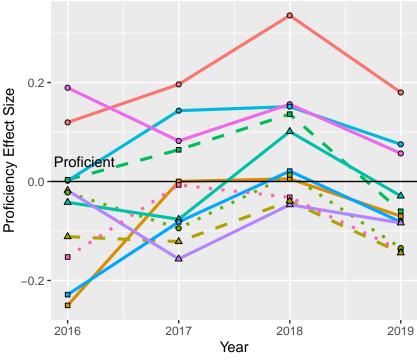




Students who stayed in district

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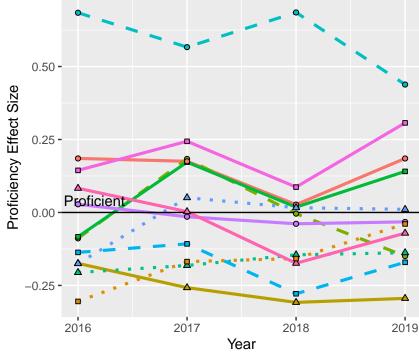




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- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division.
- multiplication and division.
 Solve problems involving measurement and estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four
- operations, and identify and explain patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi-digit arithmetic.

Grade 4 Target Performance



solid = Major, dashed = Supporting, dotted = Additional

Target

DRAFT

Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.

Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

Extend understanding of fraction equivalence and ordering. Gain familiarity with factors and

multiples.

Generalize place value understanding for multi-digit whole numbers.

Generate and analyze patterns.

Represent and interpret data.

Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

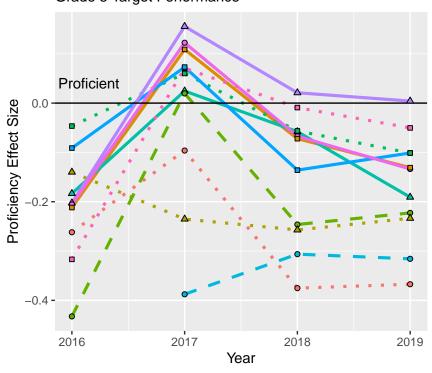
understand concepts of angle and measure angles. Understand decimal notation for

fractions, and compare decimal fractions.

Use place value understanding and properties of operations to perform multi-digit arithmetic.
Use the four operations with whole

numbers to solve problems.

Grade 5 Target Performance

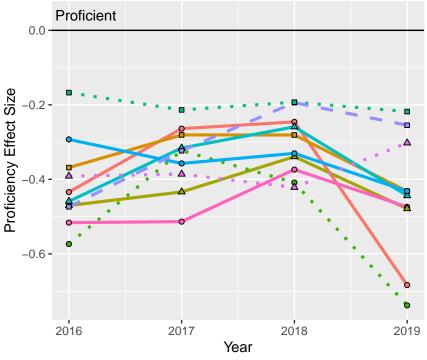


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- Analyze patterns and relationships.
- Apply and extend previous understandings
 of multiplication and division to
- multiply and divide fractions.
 Classify two–dimensional figures into
- categories based on their properties.
 Convert like measurement units within a
- given measurement system.
 Graph points on the coordinate plane
- to solve real–world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance

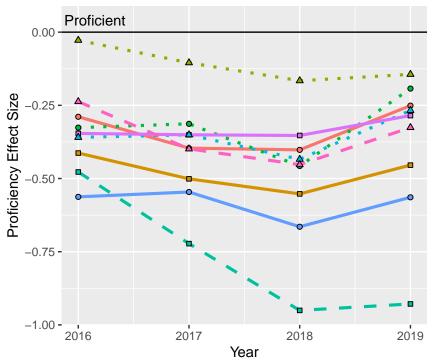


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- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi–digit
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one-variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real-world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance



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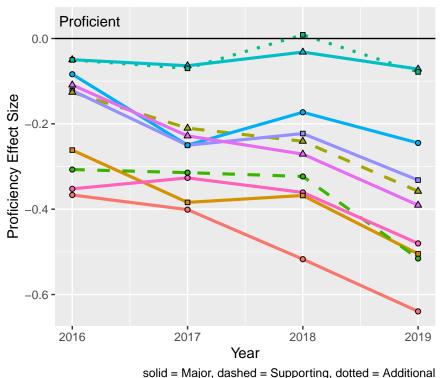
Target

- Analyze proportional relationships and use them to solve real-world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add,
- subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical
- problems involving angle measure, area, surface area, and volume. Solve real-life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- about a population.

solid = Major, dashed = Supporting, dotted = Additional

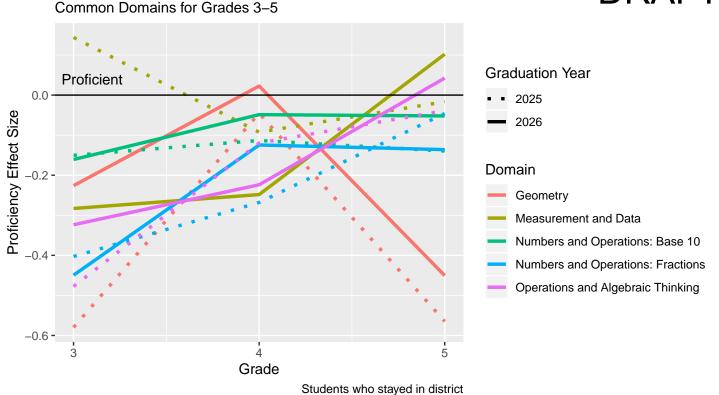
Grade 8 Target Performance



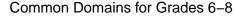


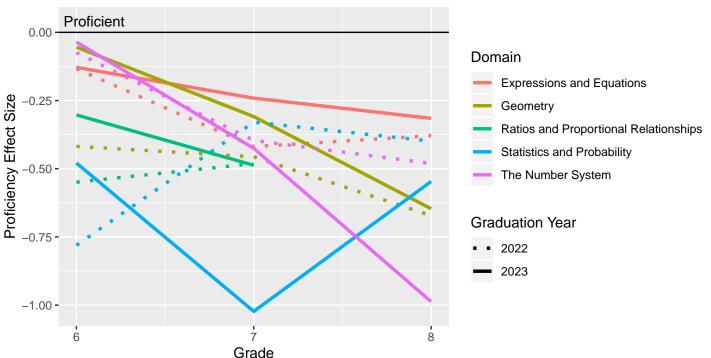
- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real–world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and integer exponents.

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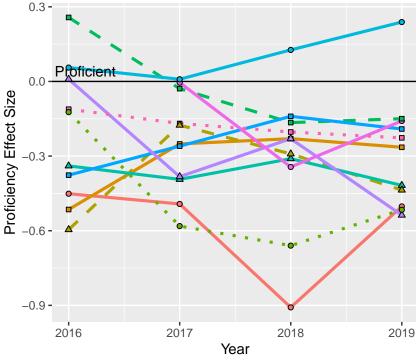




Students who stayed in district

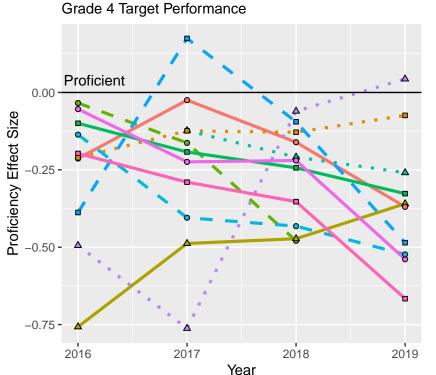
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solid = Major, dashed = Supporting, dotted = Additional

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- A Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division.
 Solve problems involving measurement and
- Solve problems involving measurement and estimation of intervals of time, liquid
- volumes, and masses of objects. Solve problems involving the four
- operations, and identify and explain patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
 Use place value understanding and
- properties of arithmetic to perform multi-digit arithmetic.

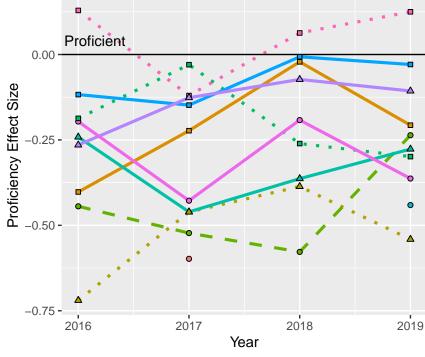


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DRAFT

- Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.
- Draw and identify lines and angles, and classify shapes by properties of their lines and angles.
- Extend understanding of fraction equivalence and ordering. Gain familiarity with factors and
- multiples. Generalize place value understanding for multi-digit whole numbers.
- Generate and analyze patterns.
 - Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.
- understand concepts of angle and measure angles.
- Understand decimal notation for fractions, and compare decimal fractions. Use place value understanding and
- properties of operations to perform multi-digit arithmetic.
- Use the four operations with whole numbers to solve problems.

Grade 5 Target Performance

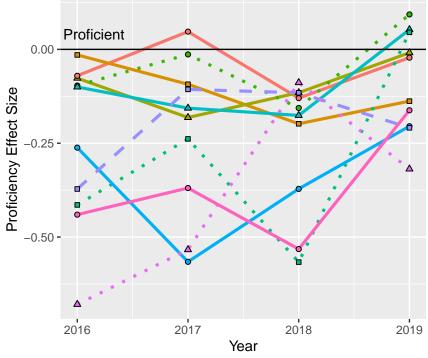


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DRAFT

- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two-dimensional figures into
- categories based on their properties.
 Convert like measurement units within a
- given measurement system.
 Graph points on the coordinate plane
- to solve real–world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance



Target

 Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings

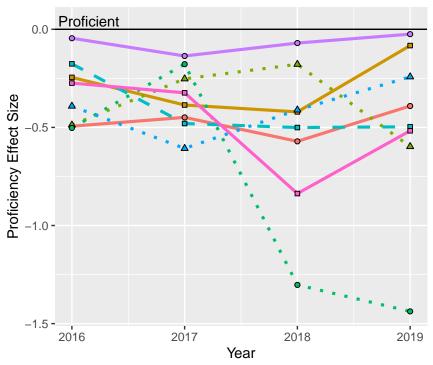
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- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational numbers.
- Compute fluently with multi–digit numbers and find common factors and
- multiples.

 Develop understanding of statistical variability.
- Reason about and solve one–variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real–world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

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Grade 7 Target Performance



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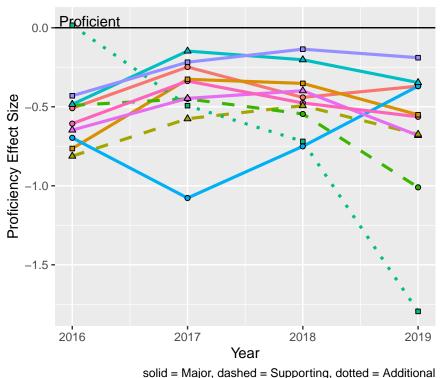
Target

- Analyze proportional relationships and use them to solve real–world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.
- Draw, construct and describe geometrical figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical problems involving angle measure, a
- problems involving angle measure, area, surface area, and volume.
 Solve real-life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- Use random sampling to draw inference about a population.

solid = Major, dashed = Supporting, dotted = Additional

Grade 8 Target Performance

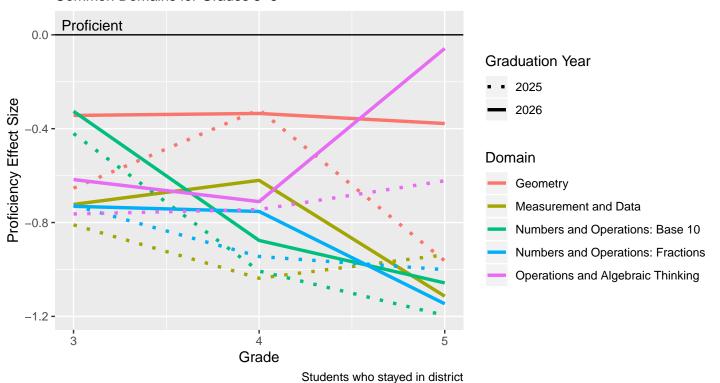




- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real—world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and integer exponents.

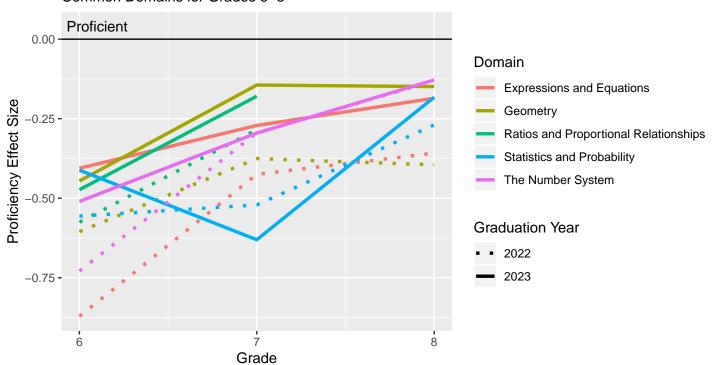
AREA COOPERATIVE EDUCATIONAL Common Domains for Grades 3–5





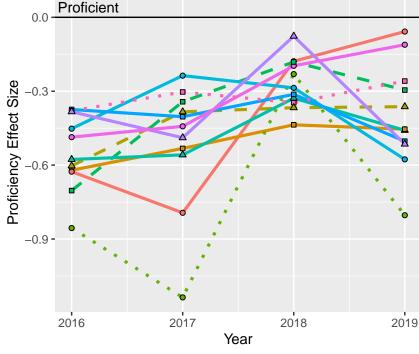
AREA COOPERATIVE EDUCATIONAL Common Domains for Grades 6–8





Students who stayed in district

Grade 3 Target Performance

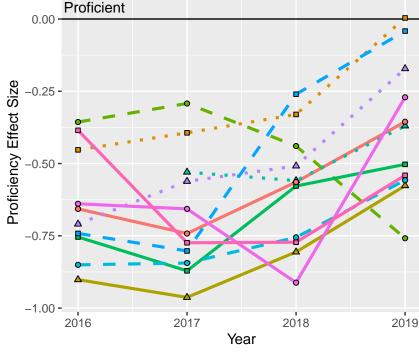


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DRAFT

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
- estimation of intervals of time, liquid
- volumes, and masses of objects. Solve problems involving the four operations, and identify and explain
- patterns in arithmetic. Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi-digit arithmetic.

Grade 4 Target Performance



DRAFT

Target

Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.

Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

Extend understanding of fraction equivalence and ordering. Gain familiarity with factors and

multiples. Generalize place value understanding for multi-digit whole numbers.

Generate and analyze patterns.

Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

understand concepts of angle and measure angles.

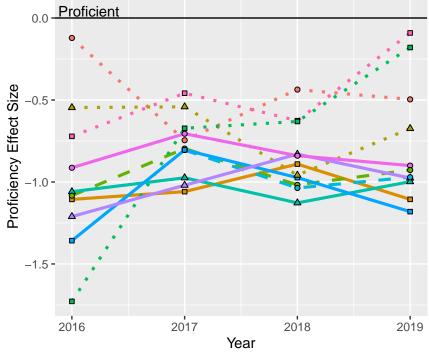
Understand decimal notation for fractions, and compare decimal fractions. Use place value understanding and

properties of operations to perform multi-digit arithmetic. Use the four operations with whole

numbers to solve problems.

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Grade 5 Target Performance

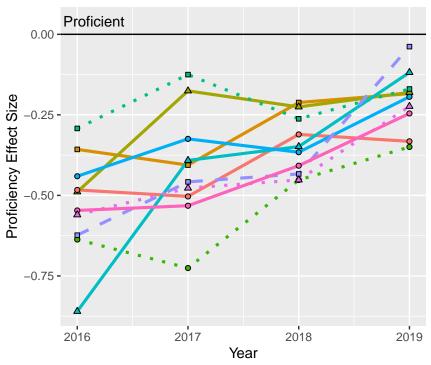


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DRAFT

- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two-dimensional figures into
 - categories based on their properties.
 Convert like measurement units within a
- given measurement system.
 Graph points on the coordinate plane
- to solve real–world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance

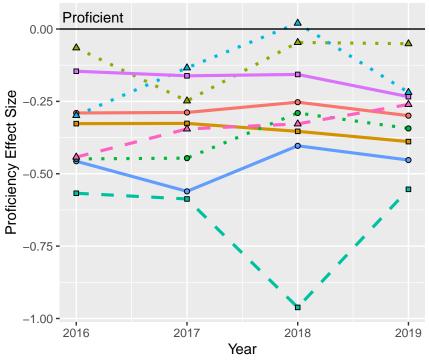


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DRAFT

- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi–digit
 numbers and find common factors and
- multiples.
 Develop understanding of statistical variability.
- Reason about and solve one-variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real–world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance



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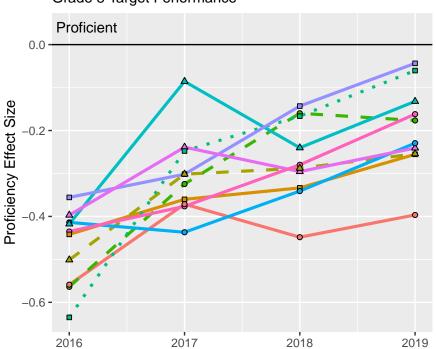
Target

- Analyze proportional relationships and use them to solve real-world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add,
- subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical problems involving angle measure, area,
- surface area, and volume. Solve real-life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- about a population.

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AREA COOPERATIVE EDUCATIONAL

Grade 8 Target Performance



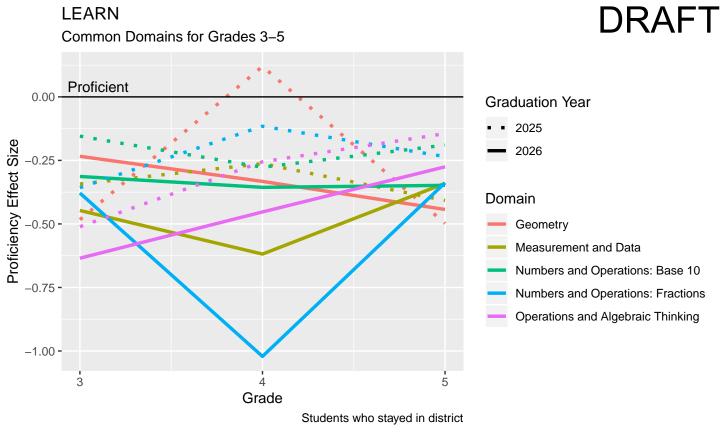
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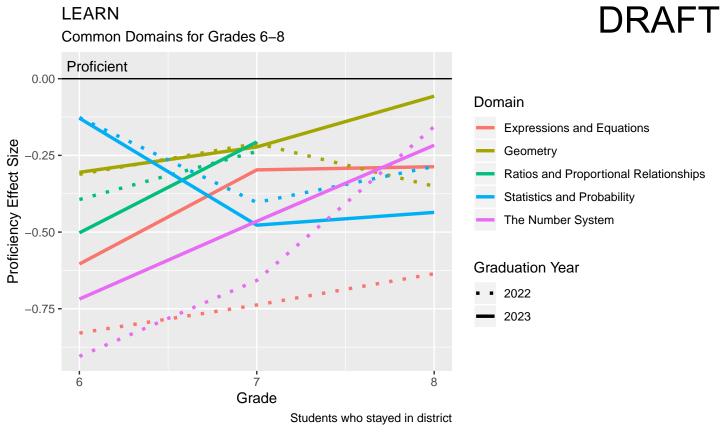
Target

- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
 - Solve real-world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and
- linear equations.
 Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and integer exponents.

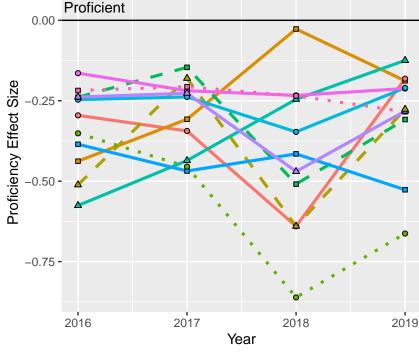
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Year





Grade 3 Target Performance



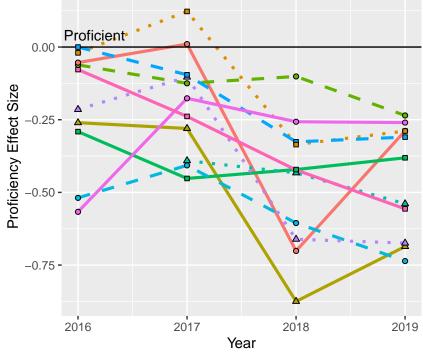
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- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
- estimation of intervals of time, liquid
- volumes, and masses of objects. Solve problems involving the four operations, and identify and explain
- patterns in arithmetic. Understand concepts of area and relate area to multiplication and to addition.
- Understand properties of multiplication and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi-digit arithmetic.

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solid = Major, dashed = Supporting, dotted = Additional

Target

Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.

 Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

Extend understanding of fraction equivalence and ordering.
Gain familiarity with factors and

multiples.
Generalize place value understanding for multi-digit whole numbers.

■ Generate and analyze patterns.

Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

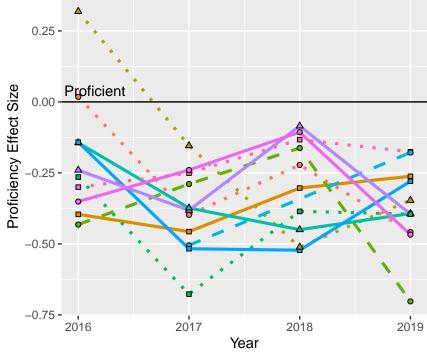
understand concepts of angle and measure angles.

Understand decimal notation for fractions, and compare decimal fractions.
Use place value understanding and

or properties of operations to perform multi-digit arithmetic.

Use the four operations with whole numbers to solve problems.

Grade 5 Target Performance

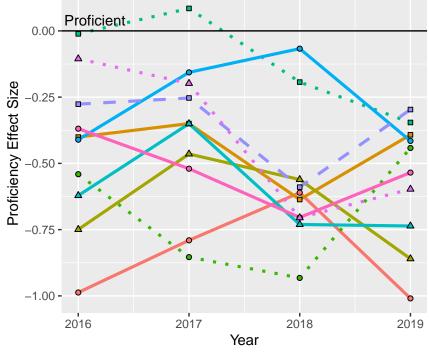


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- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two-dimensional figures into
- categories based on their properties.
 Convert like measurement units within a given measurement system.
- Graph points on the coordinate plane to solve real–world and mathematical
- to solve real—world and mathematical problems.
 Perform operations with multi-digit
- whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance



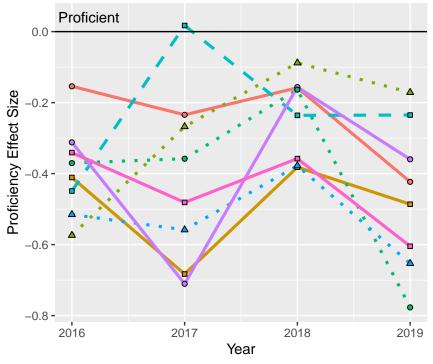
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DRAFT

- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi-digit
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one–variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real-world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance





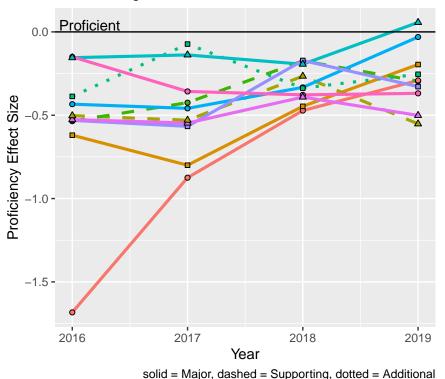
Target

- Analyze proportional relationships
 and use them to solve real-world and mathematical problems.
 Apply and extend previous understandings
- of operations with fractions to add, subtract, multiply, and divide rational numbers.
- Draw, construct and describe geometrical figures and describe the relationships
- figures and describe the relationships between them.
 Investigate chance processes and
- develop, use, and evaluate probability models.
- Solve real–life and mathematical problems involving angle measure, area, surface area, and volume.
- Solve real-life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
- Use random sampling to draw inferences about a population.

solid = Major, dashed = Supporting, dotted = Additional

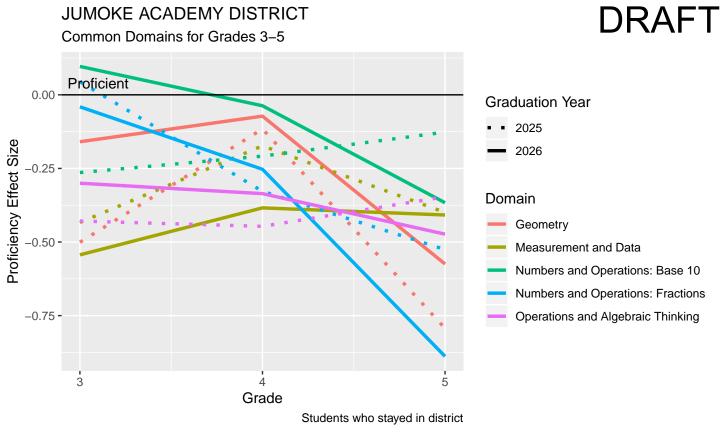
Grade 8 Target Performance

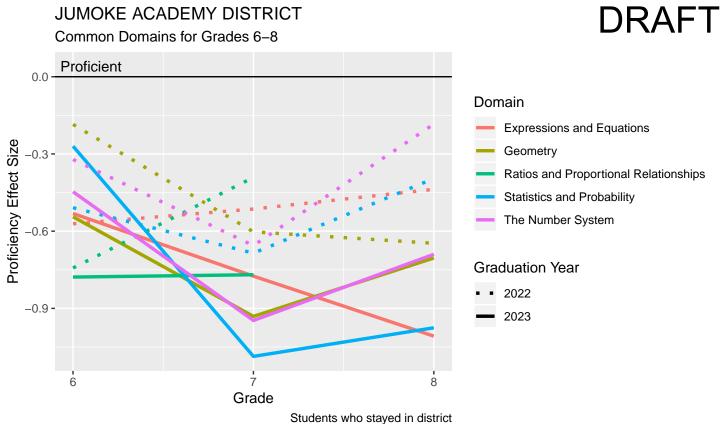




Target

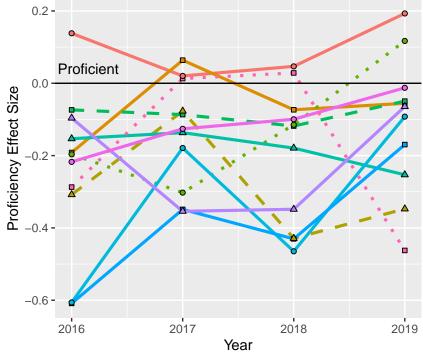
- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real–world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
- Work with radicals and integer exponents.





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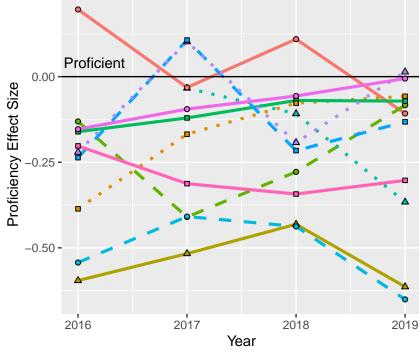


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- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
- estimation of intervals of time, liquid
- volumes, and masses of objects. Solve problems involving the four operations, and identify and explain
- patterns in arithmetic. Understand concepts of area and relate
- area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division. Use place value understanding and
- properties of arithmetic to perform multi-digit arithmetic.

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Target

Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.

Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

Extend understanding of fraction equivalence and ordering.
Gain familiarity with factors and

multiples.
Generalize place value understanding for multi–digit whole numbers.

Generate and analyze patterns.

 Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

understand concepts of angle and measure angles.

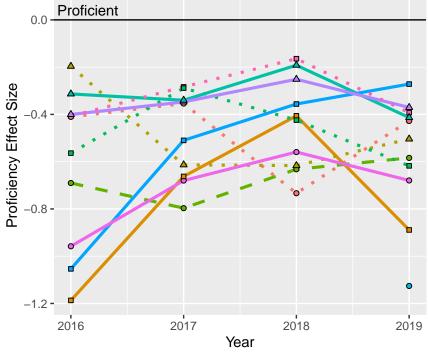
Understand decimal notation for fractions, and compare decimal fractions.

Use place value understanding and properties of operations to perform multi-digit arithmetic.
Use the four operations with whole

Use the four operations with whol numbers to solve problems.

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Grade 5 Target Performance

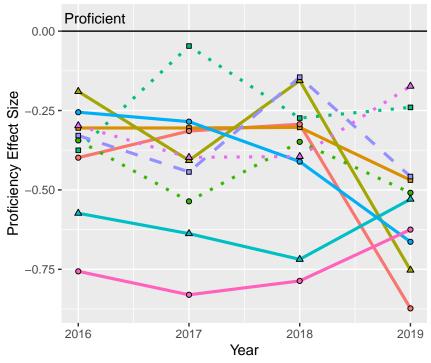


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- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two–dimensional figures into
- categories based on their properties.
 Convert like measurement units within a
- given measurement system.
 Graph points on the coordinate plane
- to solve real–world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance



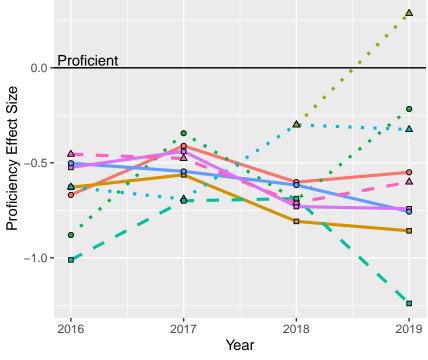
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- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi-digit
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one–variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real—world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

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Grade 7 Target Performance



Target

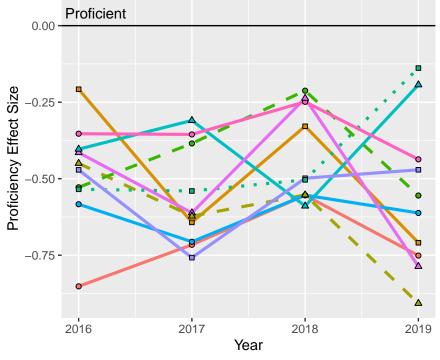
- Analyze proportional relationships and use them to solve real–world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real–life and mathematical problems involving angle measure, area, surface area, and volume.

 Solve real–life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- Use random sampling to draw inference about a population.

solid = Major, dashed = Supporting, dotted = Additional

Grade 8 Target Performance

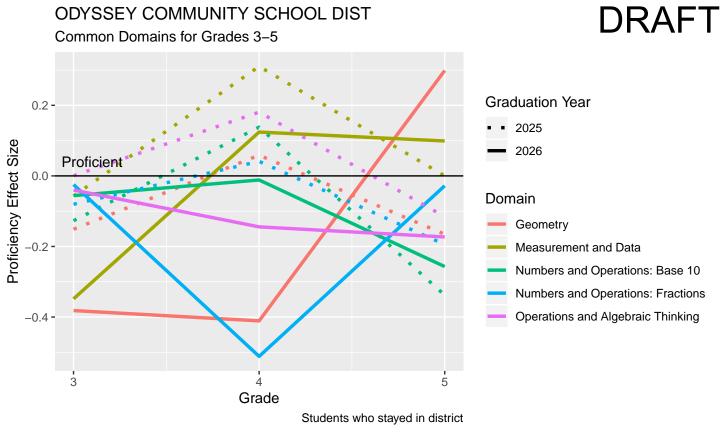


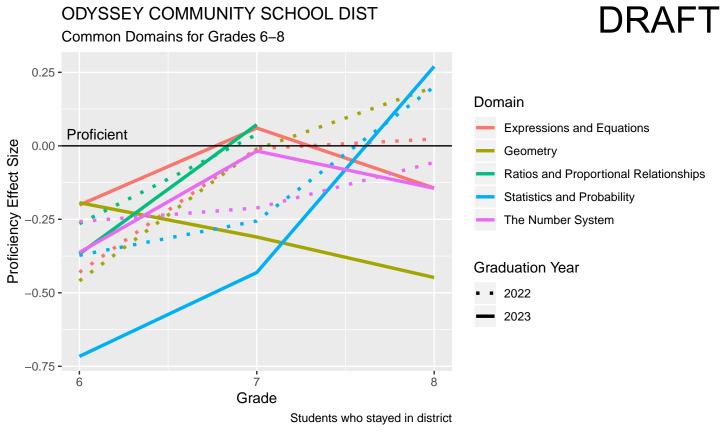


Target

- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real–world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and integer exponents.

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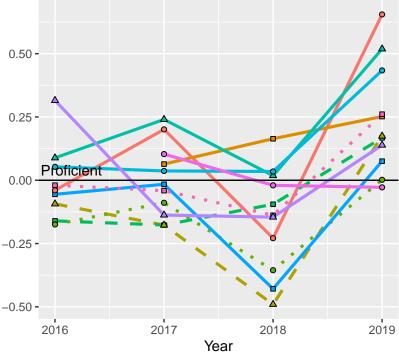




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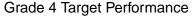


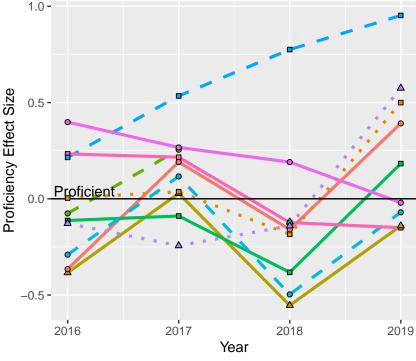
Proficiency Effect Size



solid = Major, dashed = Supporting, dotted = Additional

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division.
 - multiplication and division.
 Solve problems involving measurement and estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four
 operations, and identify and explain
- patterns in arithmetic.
 Understand concepts of area and relate area to multiplication and to addition.
 Understand properties of multiplication
- and the relationship between multiplication and division.
 Use place value understanding and
- properties of arithmetic to perform multi–digit arithmetic.





solid = Major, dashed = Supporting, dotted = Additional

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Target

Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.

Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

Extend understanding of fraction equivalence and ordering. Gain familiarity with factors and

multiples. Generalize place value understanding for multi-digit whole numbers.

Generate and analyze patterns.

Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

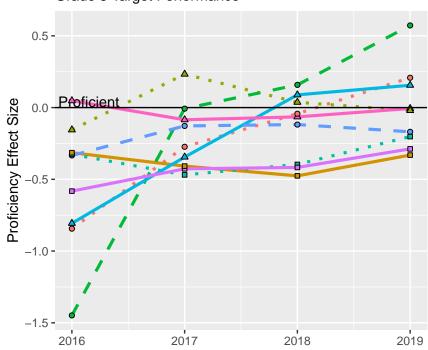
understand concepts of angle and measure angles.

Understand decimal notation for fractions, and compare decimal fractions.

Use place value understanding and properties of operations to perform multi-digit arithmetic.

Use the four operations with whole numbers to solve problems.

Grade 5 Target Performance



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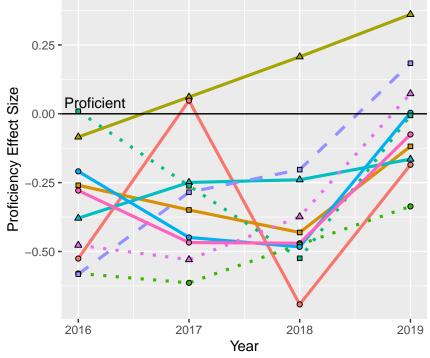
Year

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- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.

 Classify two-dimensional figures into
- categories based on their properties.
 Convert like measurement units within a
- given measurement system.
 Graph points on the coordinate plane
- to solve real-world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance



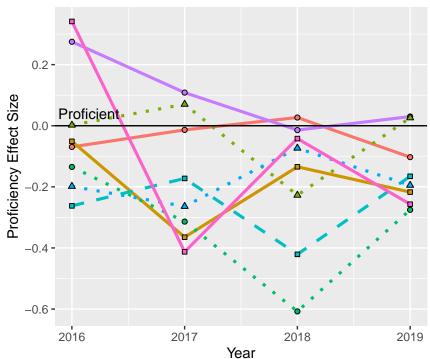
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Target

- Apply and extend previous understandings of arithmetic to algebraic expressions. Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi-digit
 numbers and find common factors and
- multiples.
 Develop understanding of statistical variability.
- Reason about and solve one–variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real-world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

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Grade 7 Target Performance



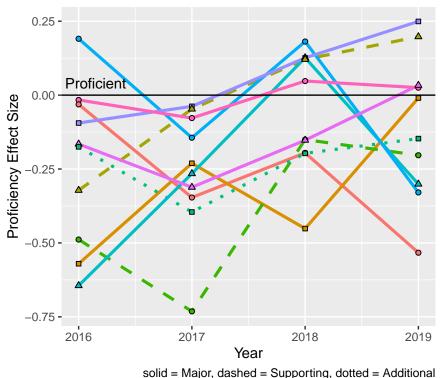
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- Analyze proportional relationships and use them to solve real–world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.
- Draw, construct and describe geometrical figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real–life and mathematical problems involving angle measure, area, surface area, and volume.
- Solve real-life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- Use random sampling to draw inference about a population.

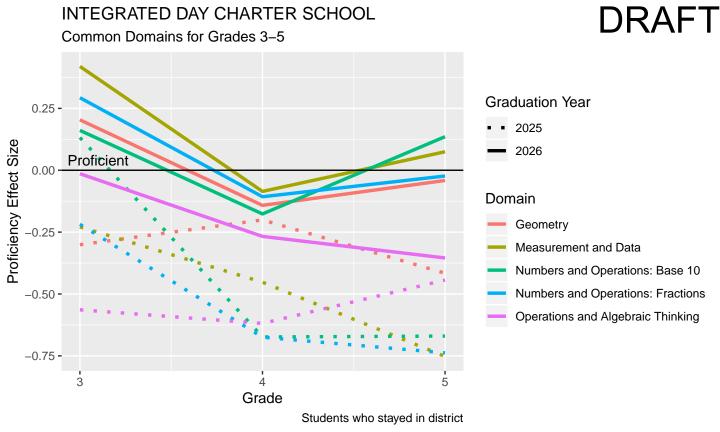
Grade 8 Target Performance

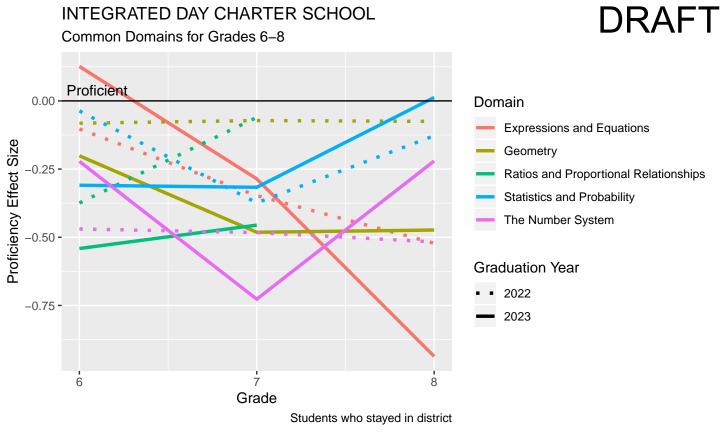
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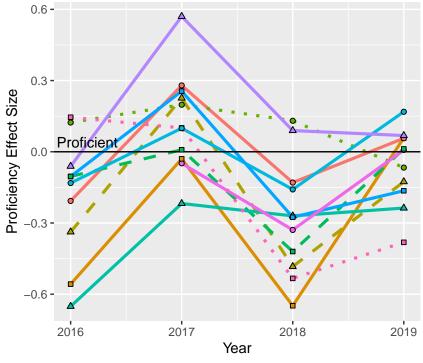
- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real–world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and integer exponents.





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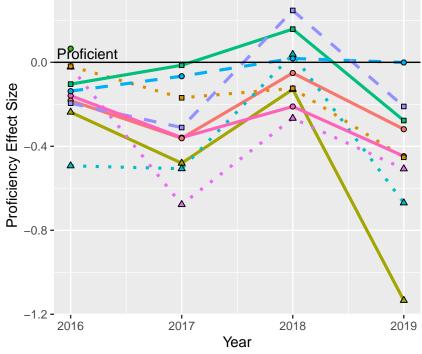




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- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
- estimation of intervals of time, liquid
- volumes, and masses of objects. Solve problems involving the four
- operations, and identify and explain patterns in arithmetic. Understand concepts of area and relate
- area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi-digit arithmetic.



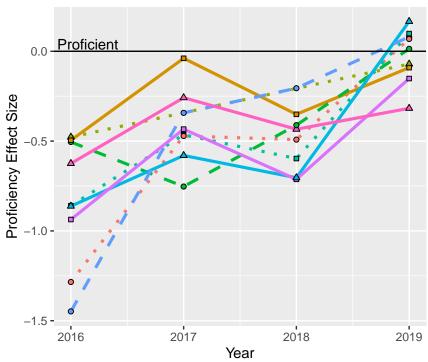


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- Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.
- Draw and identify lines and angles, and classify shapes by properties of their lines and angles.
- Extend understanding of fraction equivalence and ordering. Gain familiarity with factors and
- multiples. Generalize place value understanding for
- multi-digit whole numbers. Solve problems involving measurement and
- conversion of measurements from a larger unit to a smaller unit.
- understand concepts of angle and measure angles.
- Understand decimal notation for fractions, and compare decimal fractions.
- Use place value understanding and properties of operations to perform multi-digit arithmetic.
 Use the four operations with whole
- numbers to solve problems.

Grade 5 Target Performance



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Target

Apply and extend previous understandings of multiplication and division to

multiply and divide fractions.

Classify two-dimensional figures into categories based on their properties.
Convert like measurement units within a

given measurement system.

Graph points on the coordinate plane

to solve real–world and mathematical problems.

Perform operations with multi–digit whole numbers and with decimals to hundredths.

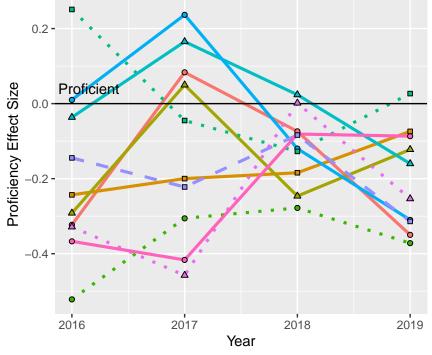
 Understand concepts of volume and relate volume to multiplication and to addition.

Understand the place value system.

Use equivalent fractions as a strategy to add and subtract fractions.

Write and interpret numerical expressions.

Grade 6 Target Performance



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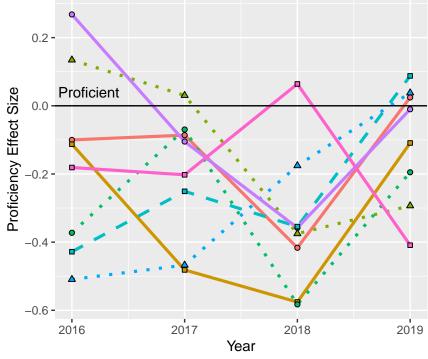
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- Apply and extend previous understandings of arithmetic to algebraic expressions.

 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.

 Compute fluently with multi-digit
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one–variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real–world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance



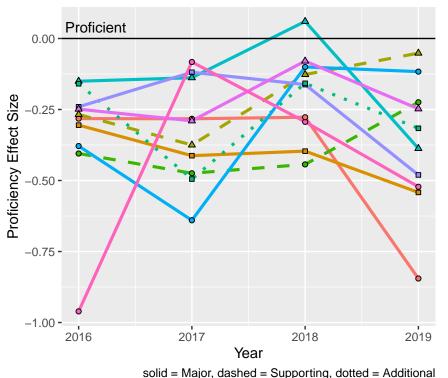
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- Analyze proportional relationships and use them to solve real–world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.
- Draw, construct and describe geometrical figures and describe the relationships
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- Solve real–life and mathematical problems involving angle measure, area, surface area, and volume.
- Solve real-life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- Use random sampling to draw inference about a population.

Grade 8 Target Performance

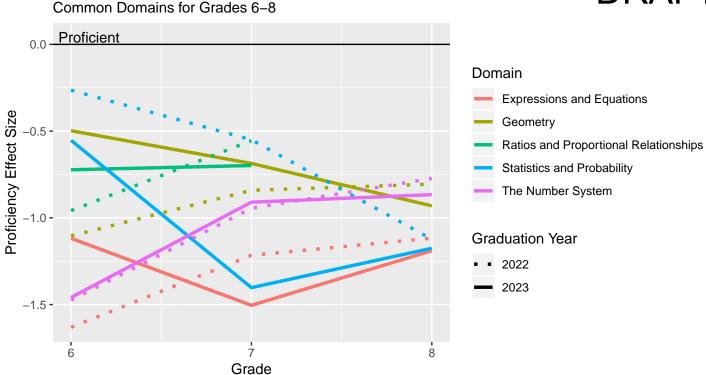




- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real—world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and integer exponents.

INTRDIST SCH FOR ARTS AND COM

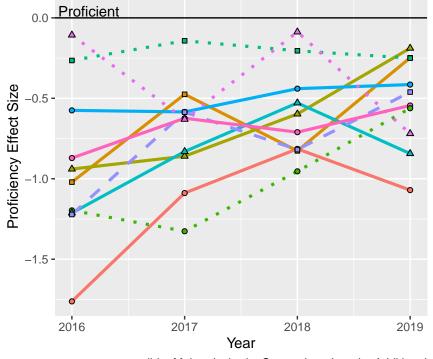
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Students who stayed in district

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Grade 6 Target Performance



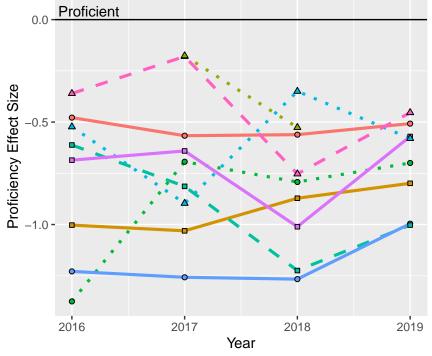
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- Apply and extend previous understandings of arithmetic to algebraic expressions. Apply and extend previous understandings
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- numbers.
 Compute fluently with multi-digit
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- Develop understanding of statistical variability.
- Reason about and solve one-variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real–world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

INTRDIST SCH FOR ARTS AND COM

Grade 7 Target Performance



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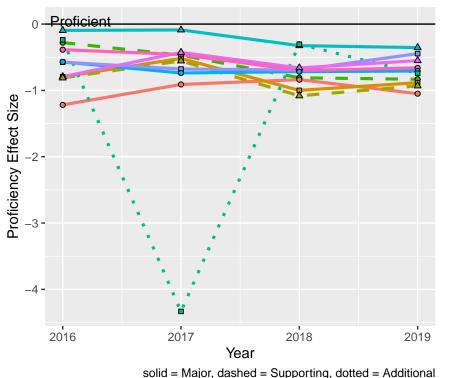
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- Analyze proportional relationships and use them to solve real-world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add,
- subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical problems involving angle measure, area,
- surface area, and volume. Solve real-life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- about a population.

INTRDIST SCH FOR ARTS AND COM

Grade 8 Target Performance

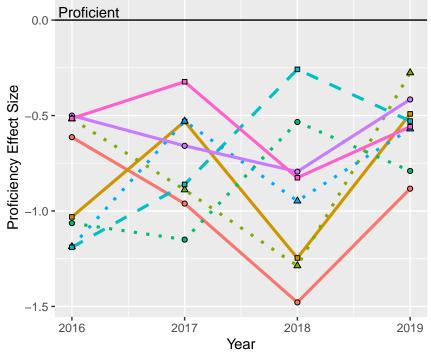




- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by
- not rational, and approximate them by rational numbers.
 Solve real—world and mathematical
- problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and integer exponents.

THE BRIDGE ACADEMY DISTRICT

Grade 7 Target Performance



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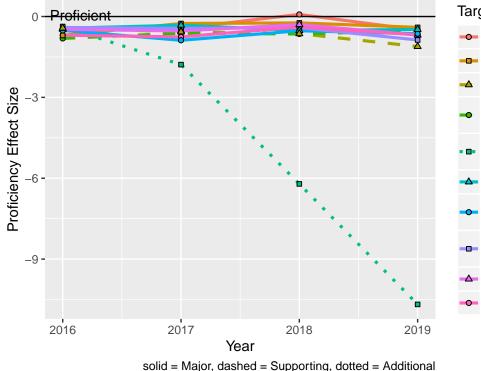
- Analyze proportional relationships and use them to solve real–world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.
- Draw, construct and describe geometrical figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability
- models.

 Solve real-life and mathematical
- problems involving angle measure, area, surface area, and volume.
- Solve real–life and mathematical problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- Use random sampling to draw inference about a population.

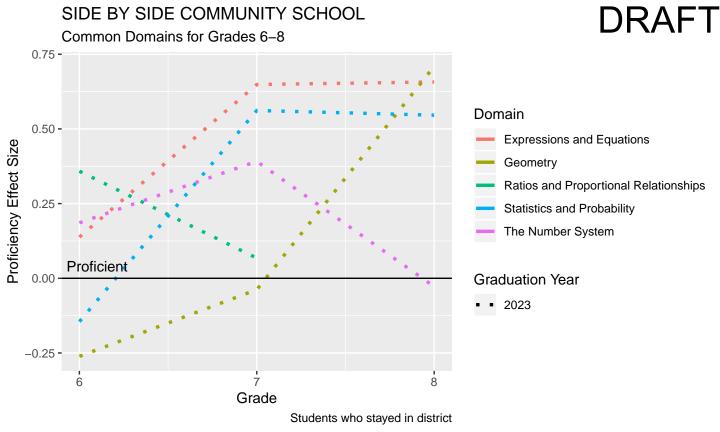
THE BRIDGE ACADEMY DISTRICT

Grade 8 Target Performance

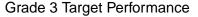


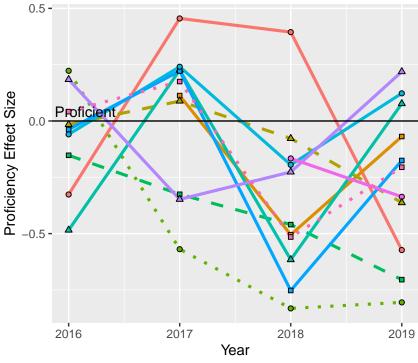


- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions: Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real-world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies,
- or geometry software. Understand the connections between proportional relationships, lines, and
- linear equations. Use functions to model relationships
- between quantities. Work with radicals and integer exponents.



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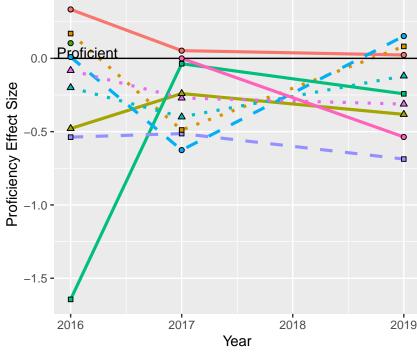


solid = Major, dashed = Supporting, dotted = Additional

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- A Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division. Solve problems involving measurement and
- estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four operations, and identify and explain patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.

 Use place value understanding
- Use place value understanding and properties of arithmetic to perform multi–digit arithmetic.

Grade 4 Target Performance



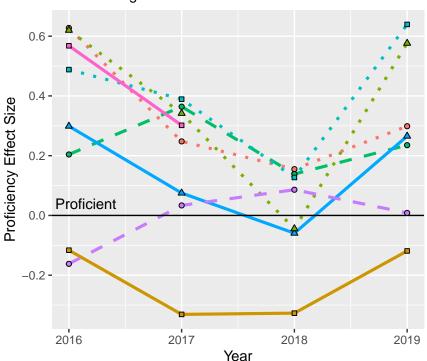
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- Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.
- Draw and identify lines and angles, and classify shapes by properties of their lines and angles.
- Extend understanding of fraction equivalence and ordering.
 Gain familiarity with factors and
- multiples.
 Generalize place value understanding for
- multi-digit whole numbers.

 Solve problems involving measurement and conversion of measurements from a larger
- unit to a smaller unit.
 understand concepts of angle and measure angles.
- Understand decimal notation for fractions, and compare decimal fractions.
- Use place value understanding and properties of operations to perform multi–digit arithmetic.
 Use the four operations with whole
- Use the four operations with whole numbers to solve problems.

Grade 5 Target Performance

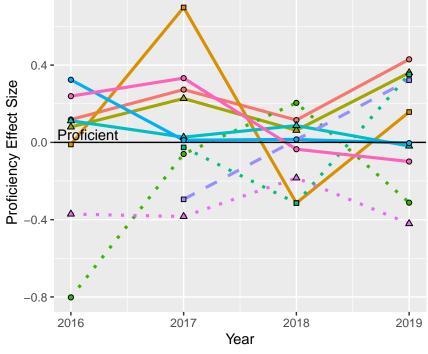


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- Apply and extend previous understandings of multiplication and division to multiply and divide fractions.
- Classify two-dimensional figures into categories based on their properties. Graph points on the coordinate plane
- to solve real–world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.



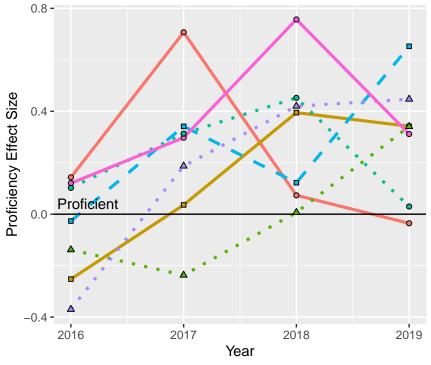


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- Apply and extend previous understandings of arithmetic to algebraic expressions. Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers. Compute fluently with multi-digit
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one-variable equations and inequalities. Represent and analyze quantitative
- relationships between dependent and independent variables. Solve real-world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance



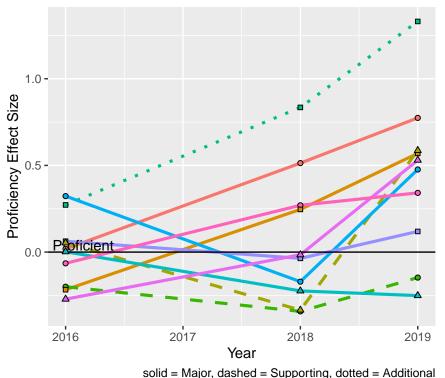
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DRAFT

- Analyze proportional relationships and use them to solve real–world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.
- Draw, construct and describe geometrical figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real–life and mathematical problems involving angle measure, area, surface area, and volume.
- Solve real–life and mathematical problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.

Grade 8 Target Performance



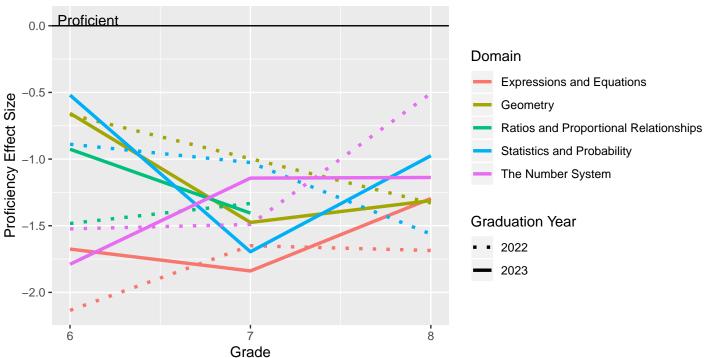


Target

- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real—world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies,
- or geometry software.
 Understand the connections between proportional relationships, lines, and linear equations
- inear equations.
 Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and intege exponents.

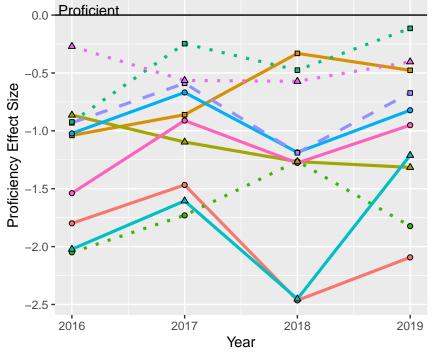
Common Domains for Grades 6–8





Students who stayed in district

Grade 6 Target Performance



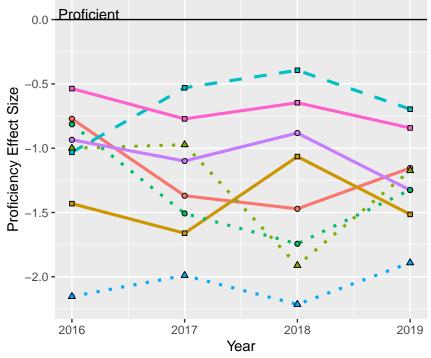
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DRAFT

- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi–digit
 numbers and find common factors and
- multiples.

 Develop understanding of statistical
- Develop understanding of statistical variability.
- Reason about and solve one–variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real–world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance



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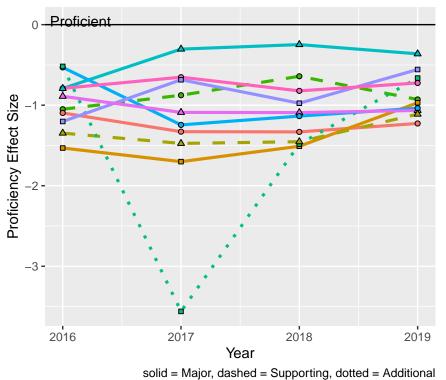
Target

- Analyze proportional relationships and use them to solve real–world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.
- Draw, construct and describe geometrical figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real–life and mathematical problems involving angle measure, area, surface area, and volume.
- Solve real-life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- Use random sampling to draw inference about a population.

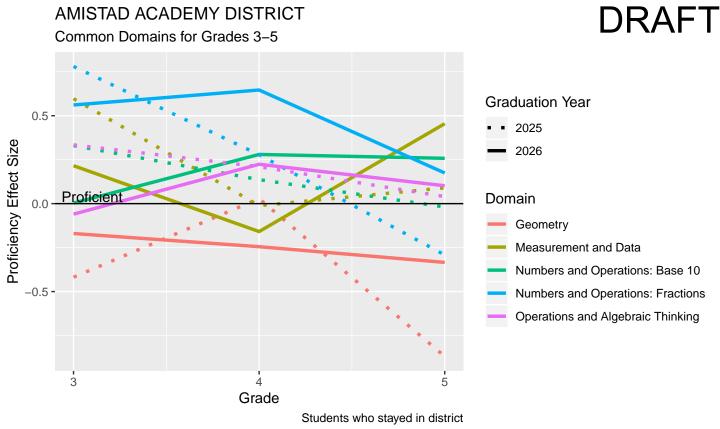
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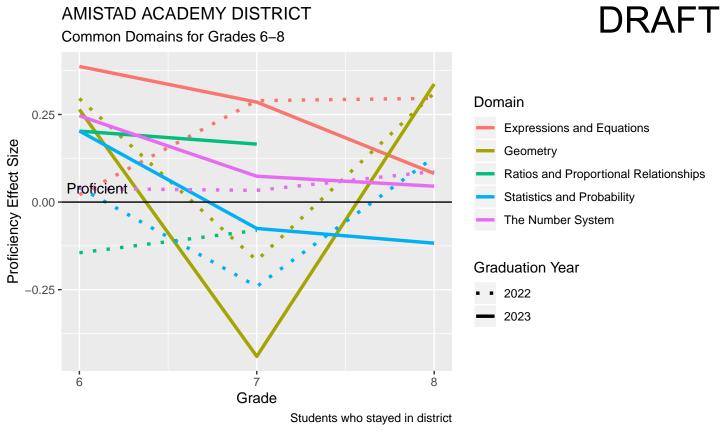
Grade 8 Target Performance





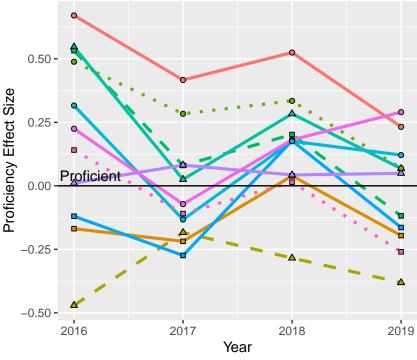
- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real—world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and integer exponents.





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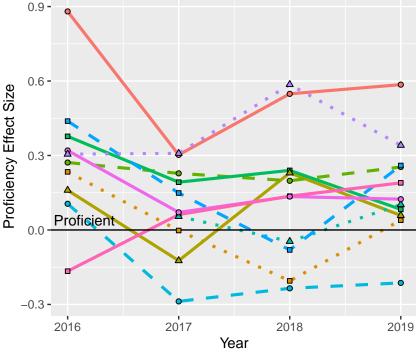




solid = Major, dashed = Supporting, dotted = Additional

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division.
- Solve problems involving measurement and estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four
- operations, and identify and explain patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
 Use place value understanding and
- properties of arithmetic to perform multi–digit arithmetic.

Grade 4 Target Performance



solid = Major, dashed = Supporting, dotted = Additional

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Target

Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.

 Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

Extend understanding of fraction equivalence and ordering.
Gain familiarity with factors and

multiples.
Generalize place value understanding for

multi-digit whole numbers.

Generate and analyze patterns.

 Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

understand concepts of angle and measure angles.

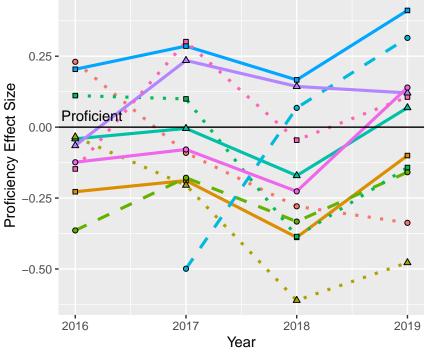
Understand decimal notation for fractions, and compare decimal fractions.
Use place value understanding and

 properties of operations to perform multi-digit arithmetic.

Use the four operations with whole numbers to solve problems.

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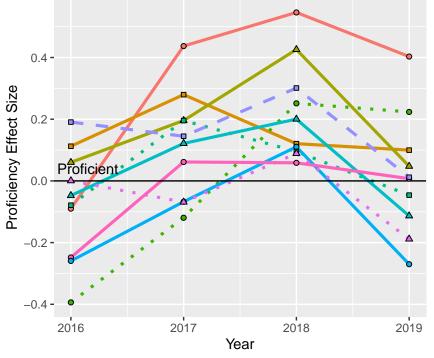


solid = Major, dashed = Supporting, dotted = Additional

- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two–dimensional figures into
- categories based on their properties.
 Convert like measurement units within a
- given measurement system.
 Graph points on the coordinate plane
- to solve real–world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

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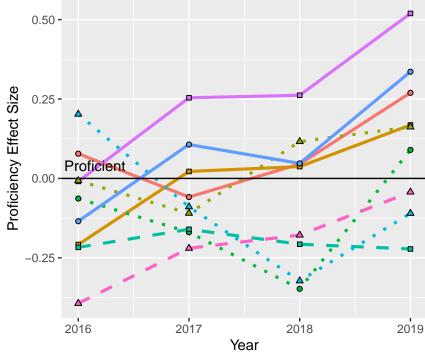
Grade 6 Target Performance



solid = Major, dashed = Supporting, dotted = Additional

- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi-digit
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one–variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real—world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance

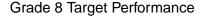


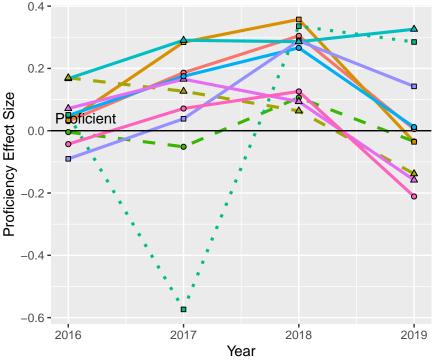
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DRAFT

- Analyze proportional relationships and use them to solve real-world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical problems involving angle measure, area, surface area, and volume.
- Solve real-life and mathematical problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- about a population.

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Target

- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
 - Solve real-world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and intege exponents.

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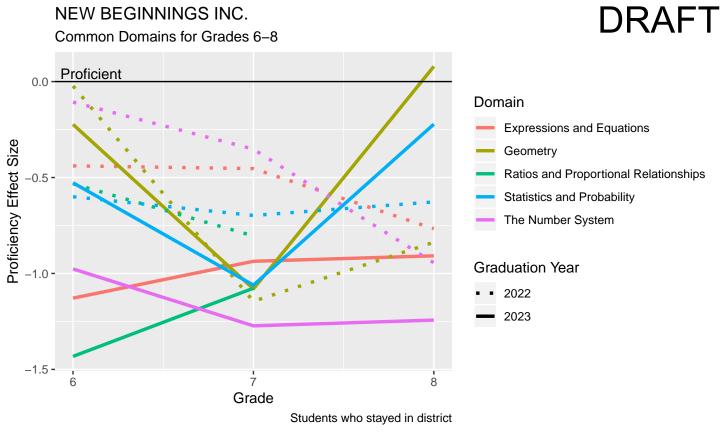
DRAFT NEW BEGINNINGS INC. Common Domains for Grades 3-5 0.0 Proficient **Graduation Year** 2025 -0.5 **-**2026 -1.0 **-**Domain Geometry Measurement and Data -1.5 **-**Numbers and Operations: Base 10 Numbers and Operations: Fractions -2.0 **-**Operations and Algebraic Thinking

Proficiency Effect Size

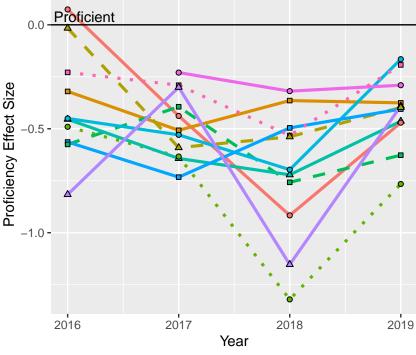
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Students who stayed in district

Grade



Grade 3 Target Performance

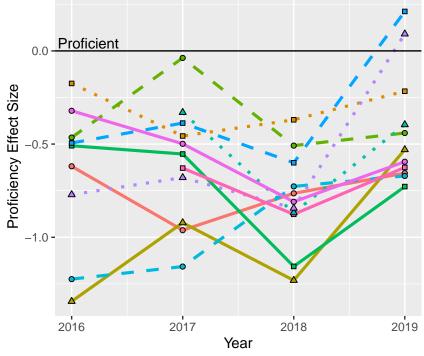


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DRAFT

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division.
- Solve problems involving measurement and estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four operations, and identify and explain patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi–digit arithmetic.

Grade 4 Target Performance

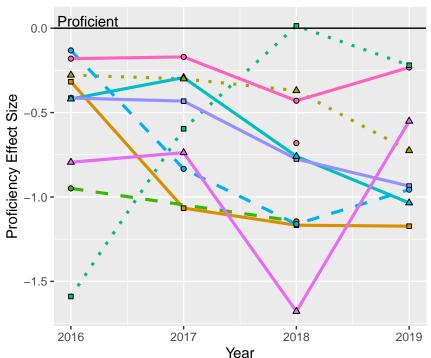


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DRAFT

- Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.
- Draw and identify lines and angles, and classify shapes by properties of their lines and angles.
- Extend understanding of fraction equivalence and ordering.
 Gain familiarity with factors and
- multiples.
 Generalize place value understanding for multi–digit whole numbers.
- Generate and analyze patterns.
 - Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.
- understand concepts of angle and measure angles.
- Understand decimal notation for fractions, and compare decimal fractions.
- Use place value understanding and properties of operations to perform multi-digit arithmetic.
- Use the four operations with whole numbers to solve problems.

Grade 5 Target Performance



Target

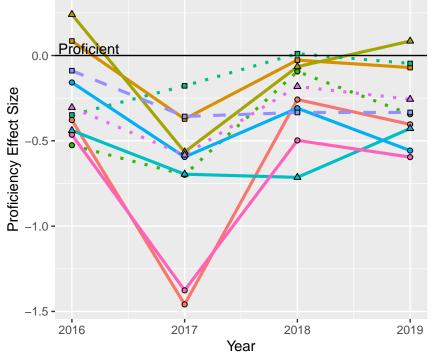
- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to multiply and divide fractions.

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- Classify two–dimensional figures into categories based on their properties.
- Convert like measurement units within a given measurement system.
- Graph points on the coordinate plane to solve real–world and mathematical
- problems.
 Perform operations with multi-digit
 whole numbers and with decimals to
- hundredths.
 Understand concepts of volume and relate volume to multiplication and to
- addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

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Grade 6 Target Performance

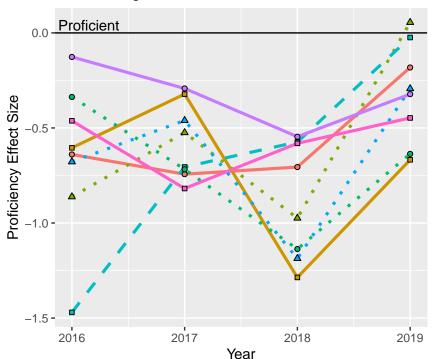


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- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi-digit
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one-variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real-world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance

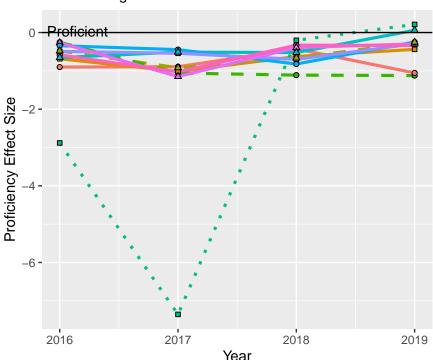


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- Analyze proportional relationships and use them to solve real–world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.
- Draw, construct and describe geometrical figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical problems involving angle measure, area,
- surface area, and volume.
 Solve real-life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- Use random sampling to draw inference about a population.

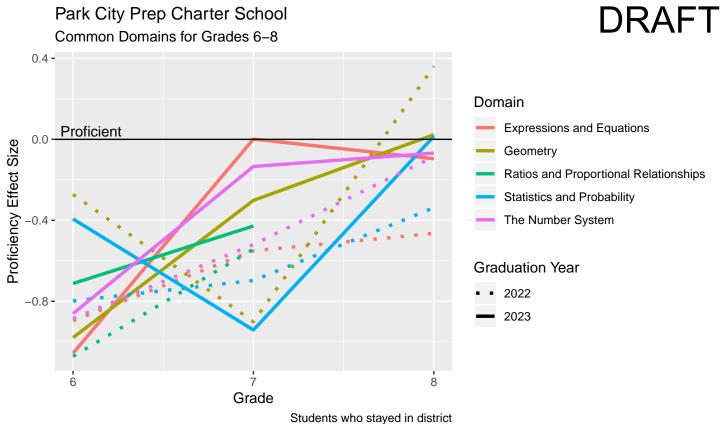
Grade 8 Target Performance



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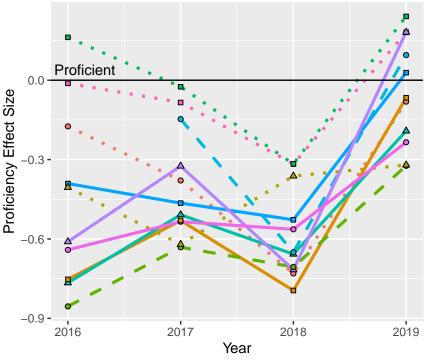
DRAFT

- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions: Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by
- rational numbers.
 - Solve real-world and mathematical problems involving volume of cylinders, cones and spheres.
 - Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities. Work with radicals and integer
- exponents.



Park City Prep Charter School

Grade 5 Target Performance



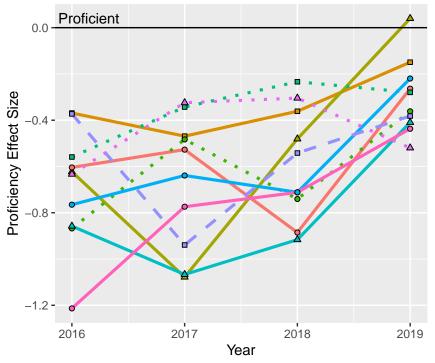
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- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two-dimensional figures into
- categories based on their properties.
 Convert like measurement units within a
- given measurement system.
 Graph points on the coordinate plane
- to solve real–world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Park City Prep Charter School

Grade 6 Target Performance



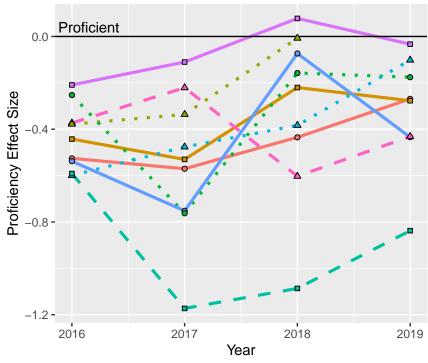
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DRAFT

- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi-digit
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one–variable equations and inequalities. Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real—world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Park City Prep Charter School

Grade 7 Target Performance



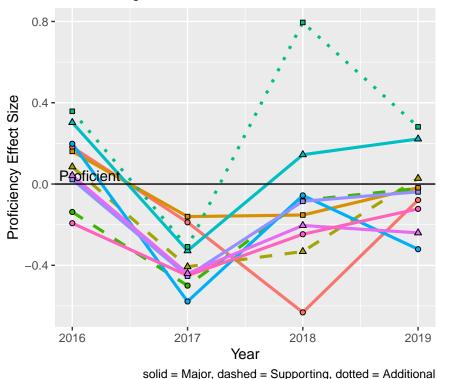
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DRAFT

- Analyze proportional relationships and use them to solve real—world and mathematical problems.
- Apply and extend previous understandings
- of operations with fractions to add, subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- • figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical problems involving angle measure, area, surface area, and volume.
- Solve real-life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- Use random sampling to draw inference about a population.

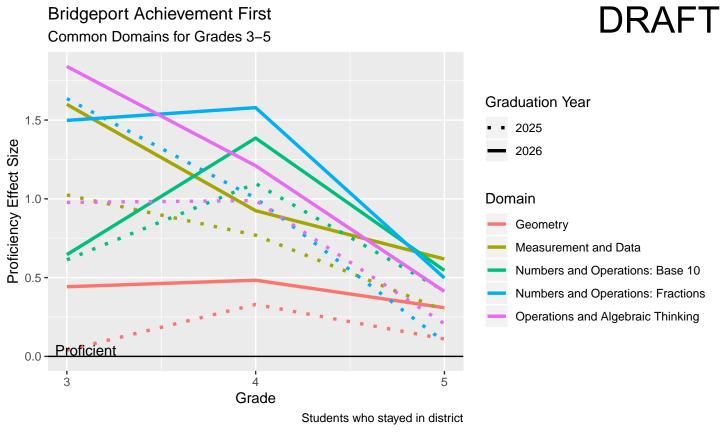
Park City Prep Charter School Grade 8 Target Performance

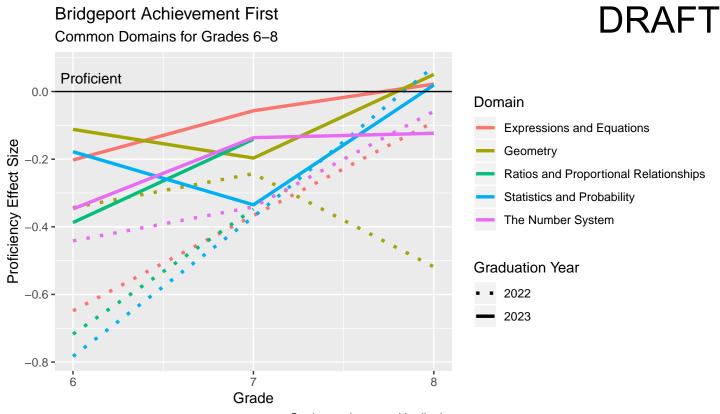




Target

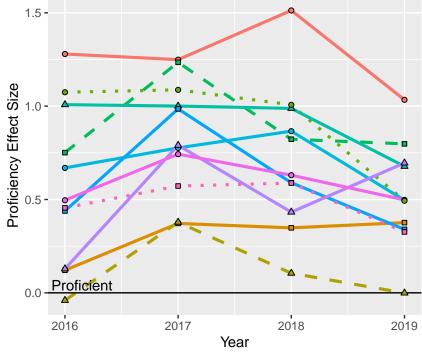
- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real—world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
- Work with radicals and integer exponents.





Students who stayed in district

Grade 3 Target Performance

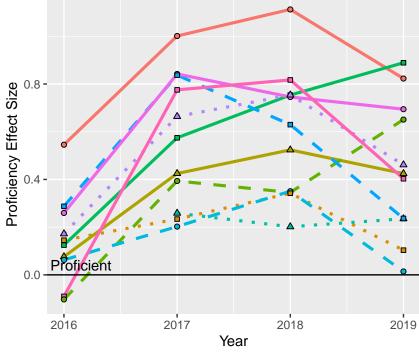


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DRAFT

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division.
- Solve problems involving measurement and estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four
- operations, and identify and explain patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
 Use place value understanding and
- properties of arithmetic to perform multi–digit arithmetic.

Grade 4 Target Performance



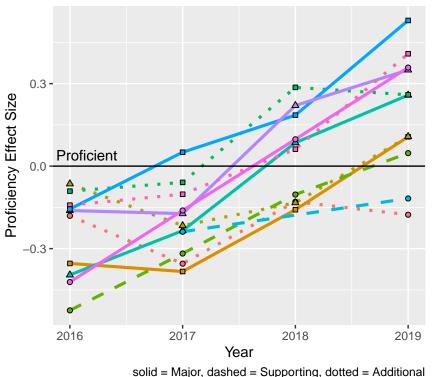
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DRAFT

- Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.
- Draw and identify lines and angles, and classify shapes by properties of their lines and angles.
- Extend understanding of fraction equivalence and ordering.
 Gain familiarity with factors and
- multiples.
 Generalize place value understanding for
- multi-digit whole numbers.

 Generate and analyze patterns.
 - Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.
- understand concepts of angle and measure angles.
- Understand decimal notation for fractions, and compare decimal fractions.
 Use place value understanding and
- or properties of operations to perform multi-digit arithmetic.
- Use the four operations with whole numbers to solve problems.

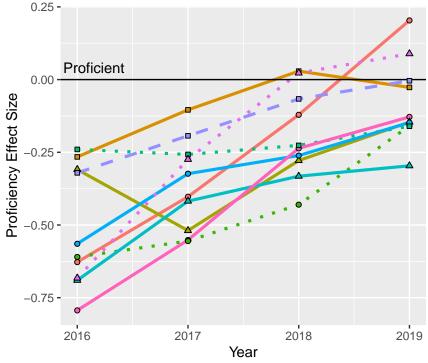
Grade 5 Target Performance



DRAFT

- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two-dimensional figures into
- categories based on their properties.
 Convert like measurement units within a
- given measurement system.
 Graph points on the coordinate plane
- to solve real–world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance

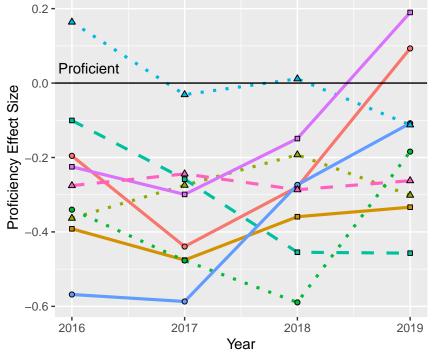


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DRAFT

- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi–digit
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one-variable equations and inequalities. Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real-world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance

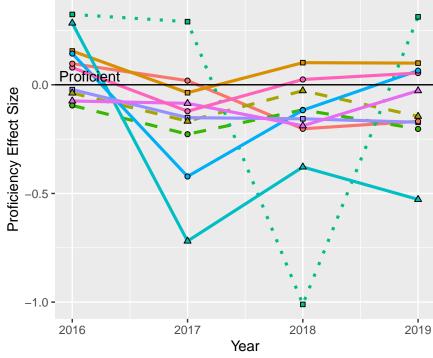


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DRAFT

- Analyze proportional relationships and use them to solve real—world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add,
- of operations with fractions to add, subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical problems involving angle measure, area, surface area, and volume.
- Solve real–life and mathematical problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
- Use random sampling to draw inferences about a population.

Grade 8 Target Performance

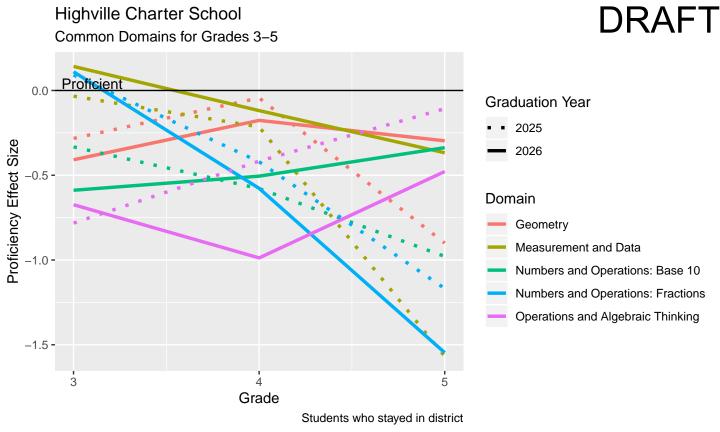


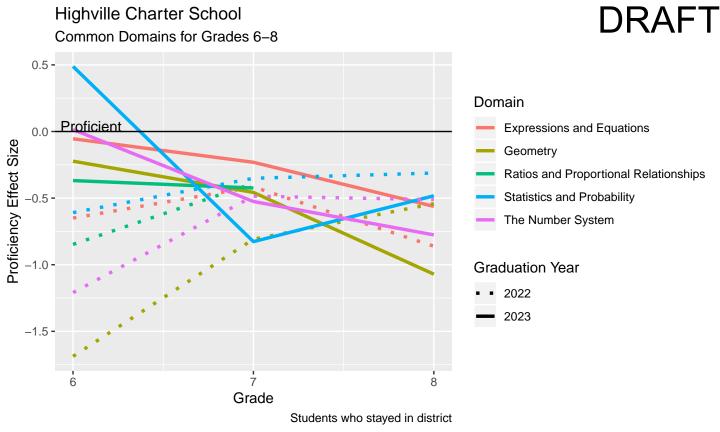
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Target

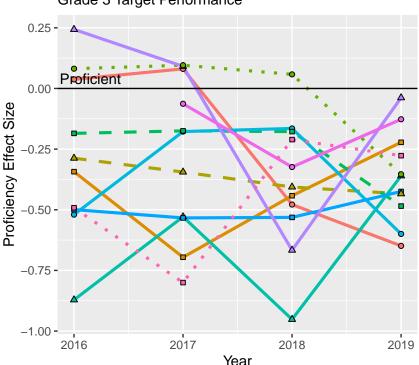
- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
 - Solve real—world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
- Work with radicals and integer exponents.

solid = Major, dashed = Supporting, dotted = Additional





Highville Charter School Grade 3 Target Performance



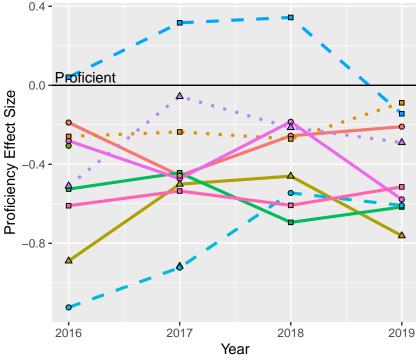
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DRAFT

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division.
- Solve problems involving measurement and estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four
- operations, and identify and explain patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi-digit arithmetic.

Highville Charter School

Grade 4 Target Performance



solid = Major, dashed = Supporting, dotted = Additional

DRAFT

Target

Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.

 Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

Extend understanding of fraction equivalence and ordering.
Gain familiarity with factors and

multiples.
Generalize place value understanding for multi–digit whole numbers.

■ Generate and analyze patterns.

Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

understand concepts of angle and measure angles.

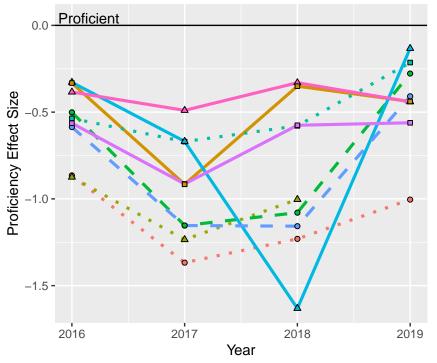
Understand decimal notation for fractions, and compare decimal fractions.
Use place value understanding and

properties of operations to perform multi-digit arithmetic.

Use the four operations with whole numbers to solve problems.

Highville Charter School Grade 5 Target Performance

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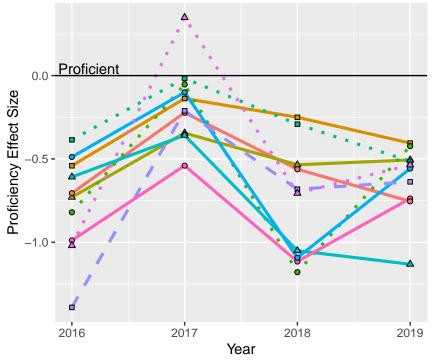


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- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two-dimensional figures into
- categories based on their properties.
 Convert like measurement units within a given measurement system.
- Graph points on the coordinate plane to solve real–world and mathematical
- to solve real-world and mathematical problems.
- Perform operations with multi-digit whole numbers and with decimals to hundredths.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Highville Charter School Grade 6 Target Performance

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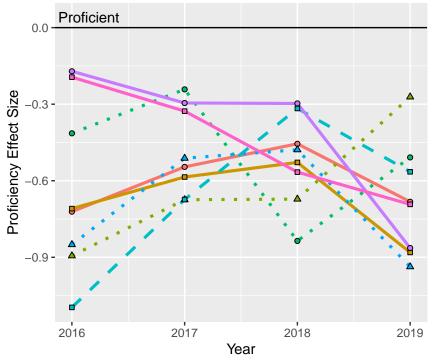


- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi-digit
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one–variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real-world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

solid = Major, dashed = Supporting, dotted = Additional

Highville Charter School Grade 7 Target Performance





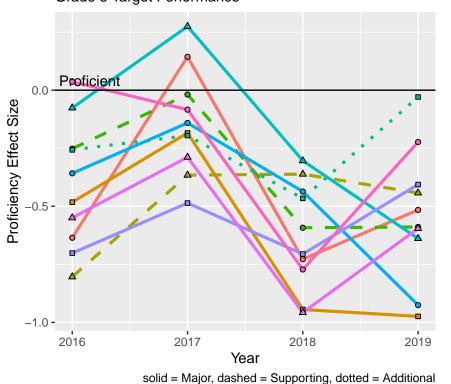
Target

- Analyze proportional relationships and use them to solve real–world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.
- Draw, construct and describe geometrical figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real–life and mathematical problems involving angle measure, area, surface area, and volume.
- Solve real-life and mathematical problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
- Use random sampling to draw inferences about a population.

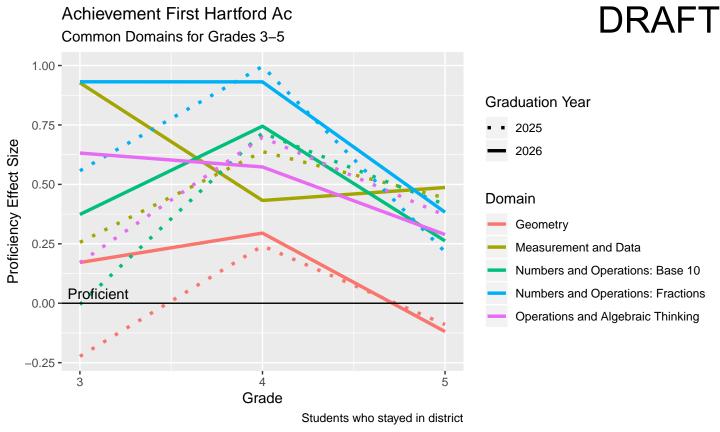
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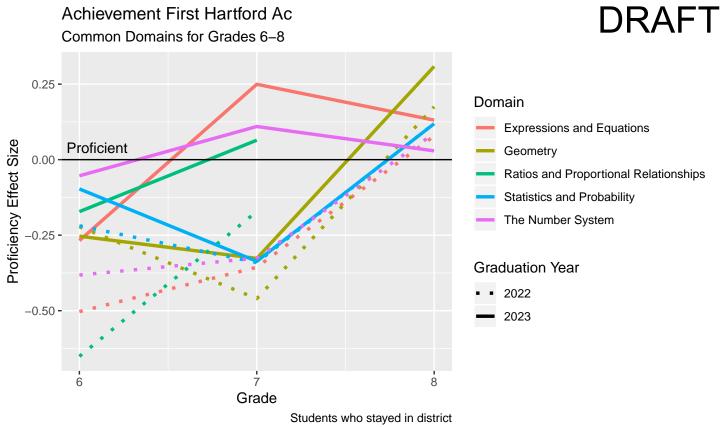
Highville Charter School Grade 8 Target Performance

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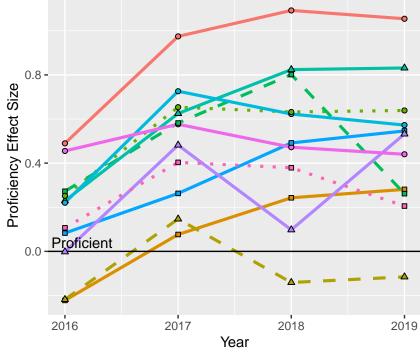


- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real—world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
- Work with radicals and integer exponents.





Grade 3 Target Performance

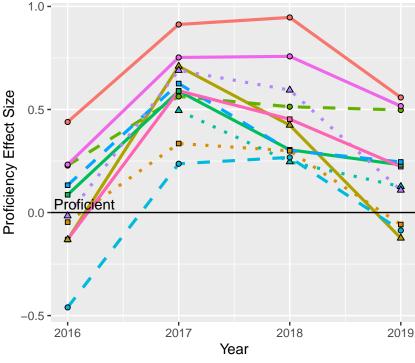


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DRAFT

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- A Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division.
 Solve problems involving measurement and
- Solve problems involving measurement and estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four
 operations, and identify and explain
- patterns in arithmetic.
 Understand concepts of area and relate
- area to multiplication and to addition.
 Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi-digit arithmetic.

Grade 4 Target Performance



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Target

Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.

 Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

Extend understanding of fraction equivalence and ordering.
Gain familiarity with factors and

multiples.
Generalize place value understanding for multi–digit whole numbers.

Generate and analyze patterns.

 Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

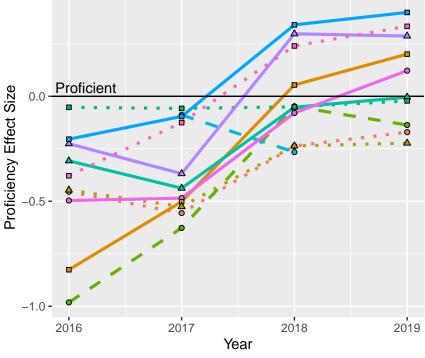
understand concepts of angle and measure angles.

Understand decimal notation for fractions, and compare decimal fractions.
Use place value understanding and

properties of operations to perform multi-digit arithmetic.

Use the four operations with whole numbers to solve problems.

Grade 5 Target Performance



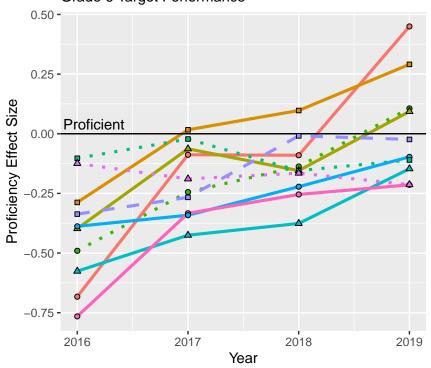
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DRAFT

- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to
- multiply and divide fractions.
 Classify two–dimensional figures into
- categories based on their properties.
 Convert like measurement units within a
- given measurement system.

 Graph points on the coordinate plane
- to solve real–world and mathematical problems.
- Perform operations with multi–digit whole numbers and with decimals to hundredths.
- Represent and interpret data.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Achievement First Hartford Ac Grade 6 Target Performance

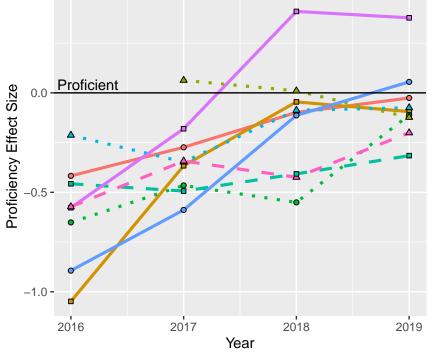


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DRAFT

- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi-digit
 numbers and find common factors and
- multiples.
 Develop understanding of statistical variability.
- Reason about and solve one-variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real-world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Grade 7 Target Performance



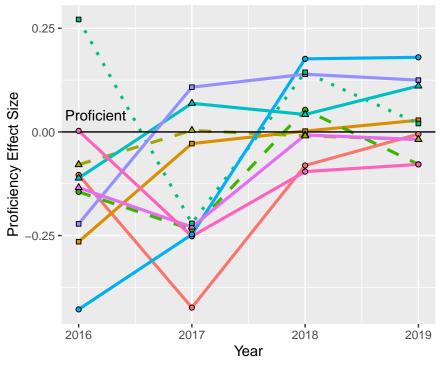
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DRAFT

- Analyze proportional relationships and use them to solve real-world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational
- numbers. Draw informal comparative inferences about two populations. Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical problems involving angle measure, area, surface area, and volume. Solve real-life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- about a population.

Achievement First Hartford Ac Grade 8 Target Performance

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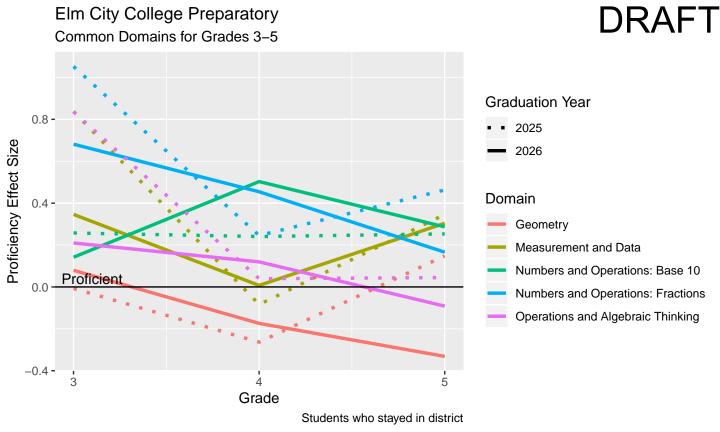


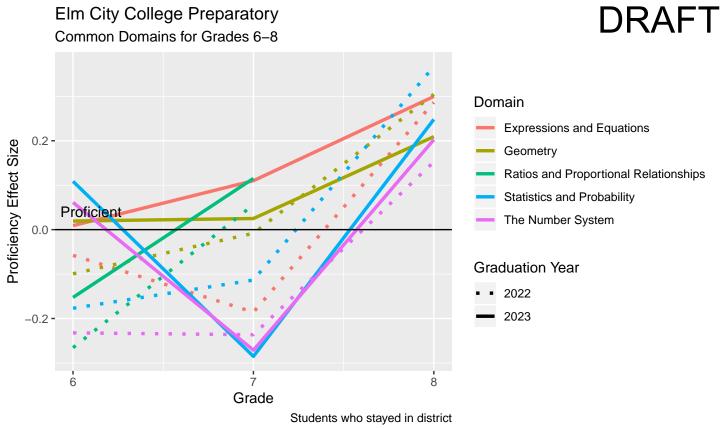
Target

- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by
- rational numbers.

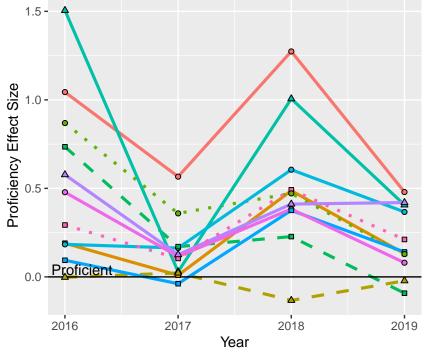
 Solve real–world and mathematical problems involving volume of cylinders,
- cones and spheres.
 Understand and apply the Pythagorean
- theorem.
 Understand congruence and similarity
- using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
- Work with radicals and integer exponents.

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Grade 3 Target Performance

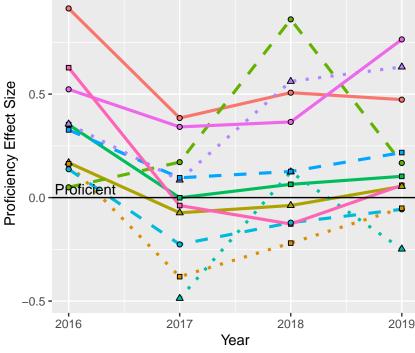


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DRAFT

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division.
- Solve problems involving measurement and estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four
- operations, and identify and explain patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
 Use place value understanding and
- properties of arithmetic to perform multi–digit arithmetic.

Grade 4 Target Performance



solid = Major, dashed = Supporting, dotted = Additional

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Target

Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.

 Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

Extend understanding of fraction equivalence and ordering.
Gain familiarity with factors and

multiples.
Generalize place value understanding for

multi-digit whole numbers.

Generate and analyze patterns.

Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

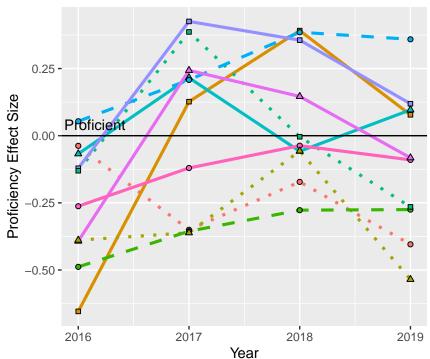
understand concepts of angle and measure angles.

Understand decimal notation for fractions, and compare decimal fractions.

Use place value understanding and properties of operations to perform multi-digit arithmetic.

Use the four operations with whole numbers to solve problems.

Grade 5 Target Performance

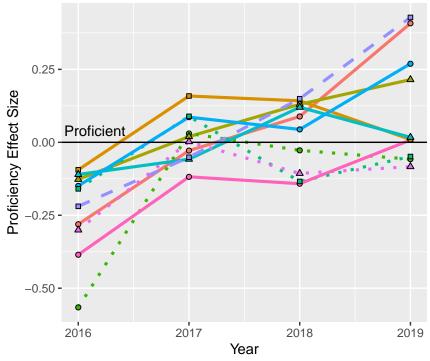


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DRAFT

- Analyze patterns and relationships.
- Apply and extend previous understandings of multiplication and division to multiply and divide fractions.
- Classify two-dimensional figures into categories based on their properties.
- Convert like measurement units within a given measurement system.
- Graph points on the coordinate plane to solve real-world and mathematical problems.
- Perform operations with multi–digit
 whole numbers and with decimals to
- whole numbers and with decimals to hundredths.
 Understand concepts of volume and
- relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance



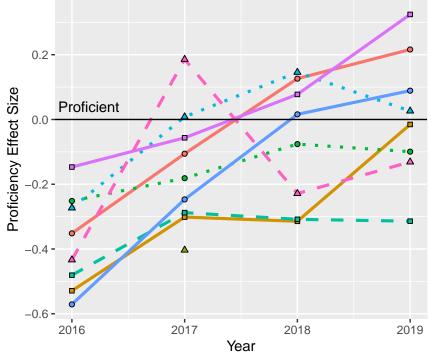
DRAFT

Target

- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- numbers.
 Compute fluently with multi–digit
 numbers and find common factors and
- multiples.
 Develop understanding of statistical variability.
- Reason about and solve one-variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real–world and mathematical
- problems involving area, surface area, and volume.
- -Δ Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

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Grade 7 Target Performance

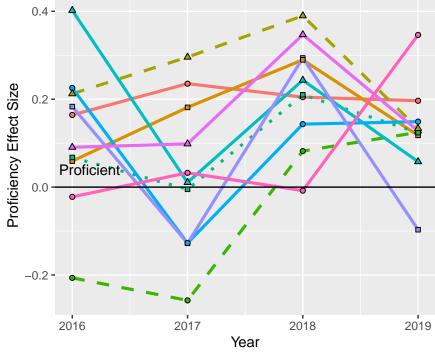


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- Analyze proportional relationships
 and use them to solve real–world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add
- of operations with fractions to add, subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- • figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical problems involving angle measure, area, surface area, and volume.
- Solve real–life and mathematical problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
- Use random sampling to draw inferences about a population.

Grade 8 Target Performance

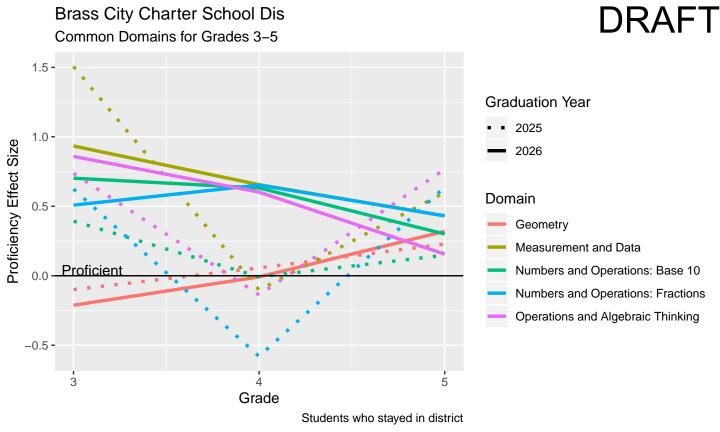


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Target

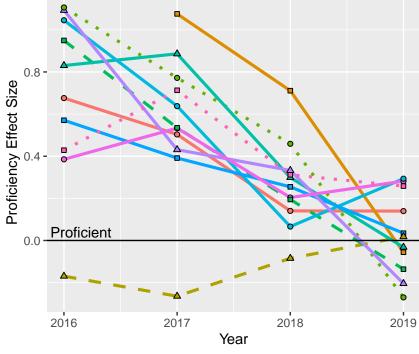
- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real–world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
- Work with radicals and integer exponents.

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Brass City Charter School Dis

Grade 3 Target Performance



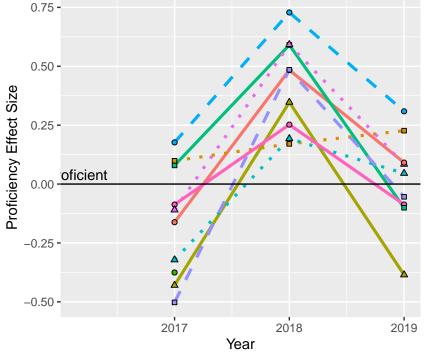
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DRAFT

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division.
- Solve problems involving measurement and estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four
 operations, and identify and explain
- patterns in arithmetic.
 Understand concepts of area and relate area to multiplication and to addition.
 Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi-digit arithmetic.

Brass City Charter School Dis

Grade 4 Target Performance



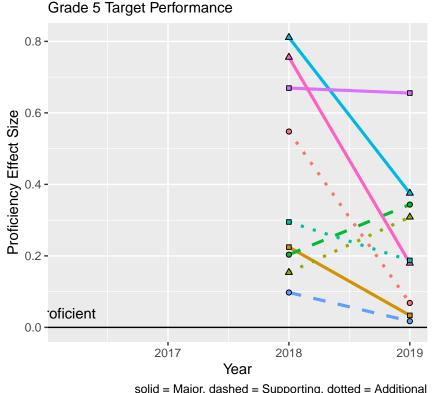
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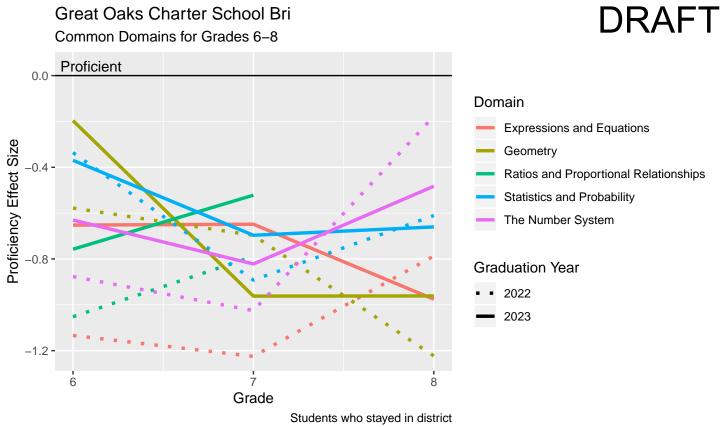
- Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.
- Draw and identify lines and angles, and classify shapes by properties of their lines and angles.
- Extend understanding of fraction equivalence and ordering.
 Gain familiarity with factors and
- multiples.
 Generalize place value understanding for
- multi–digit whole numbers.
 Solve problems involving measurement and conversion of measurements from a larger
- unit to a smaller unit.
 understand concepts of angle and measure angles.
- Understand decimal notation for fractions, and compare decimal fractions.
- Use place value understanding and properties of operations to perform multi–digit arithmetic.
 Use the four operations with whole
- Use the four operations with whole numbers to solve problems.

Brass City Charter School Dis

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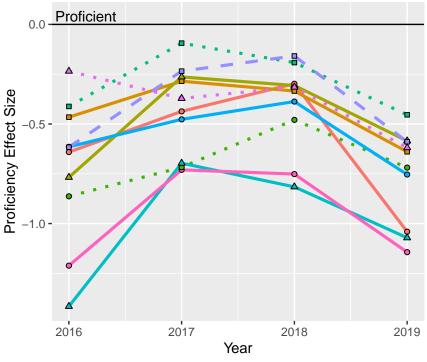


- Apply and extend previous understandings of multiplication and division to multiply and divide fractions.
- Classify two–dimensional figures into categories based on their properties.
 Convert like measurement units within a
- given measurement system.
 Graph points on the coordinate plane
- to solve real–world and mathematical problems.
- Perform operations with multi–digit whole numbers and with decimals to hundredths.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
 - Write and interpret numerical expressions.



Great Oaks Charter School Bri

Grade 6 Target Performance



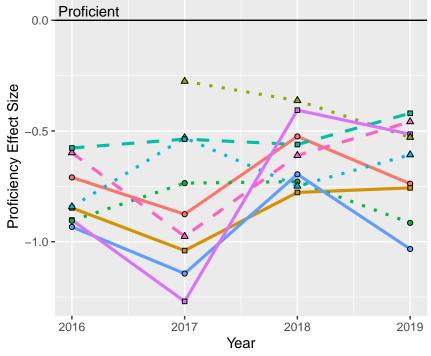
DRAFT

Target

- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational numbers.
- Compute fluently with multi-digit
- numbers and find common factors and multiples.
- Develop understanding of statistical variability.
- Reason about and solve one-variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real–world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

Great Oaks Charter School Bri

Grade 7 Target Performance



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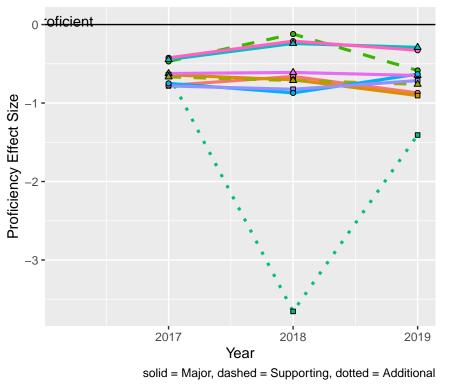
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- Analyze proportional relationships and use them to solve real—world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add,
- of operations with fractions to add, subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real-life and mathematical problems involving angle measure,
- problems involving angle measure, area, surface area, and volume.
 Solve real-life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
- Use random sampling to draw inferences about a population.

Great Oaks Charter School Bri

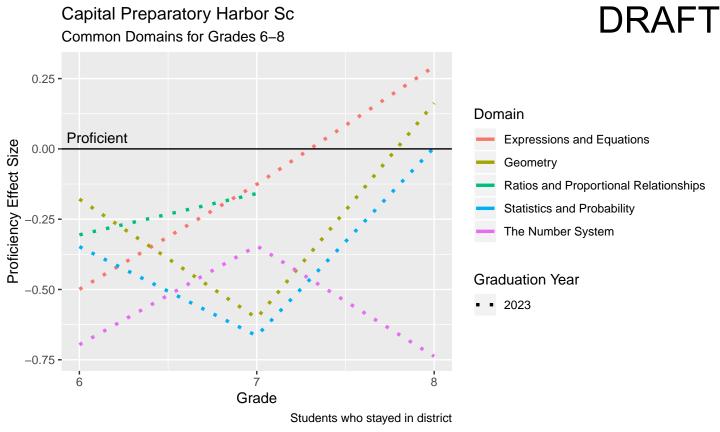
Grade 8 Target Performance



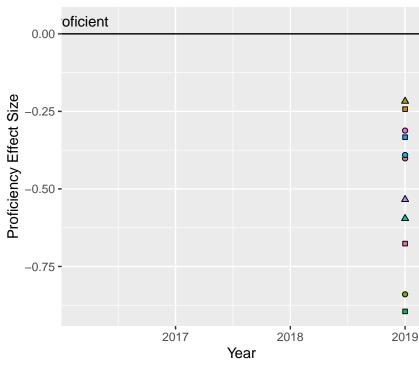


- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by
- rational numbers.

 Solve real–world and mathematical problems involving volume of cylinders,
- cones and spheres.
 Understand and apply the Pythagorean
- theorem.
 Understand congruence and similarity
 using physical models, transparencies,
- or geometry software.
 Understand the connections between
- proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and intege exponents.



Grade 3 Target Performance



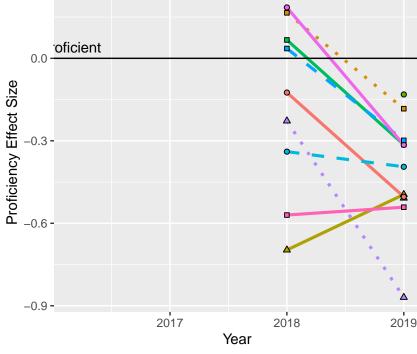
Target

Develop understanding of fractions as numbers.

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- Multiply and divide within 100.
- A Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division.
- Solve problems involving measurement and estimation of intervals of time, liquid volumes, and masses of objects.
- Solve problems involving the four operations, and identify and explain patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition. Understand properties of multiplication
- and the relationship between multiplication and division.
 Use place value understanding and
- properties of arithmetic to perform multi-digit arithmetic.

Grade 4 Target Performance



Target

Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.

DRAFT

Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

Extend understanding of fraction equivalence and ordering.
Gain familiarity with factors and

multiples.
Generalize place value understanding for multi–digit whole numbers.

Generate and analyze patterns.

Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.

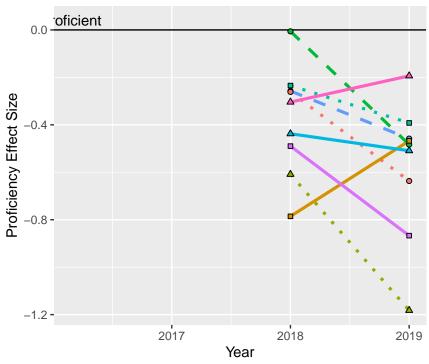
understand concepts of angle and measure angles.

Understand decimal notation for fractions, and compare decimal fractions.

Use place value understanding and properties of operations to perform multi-digit arithmetic.

Use the four operations with whole numbers to solve problems.

Grade 5 Target Performance



Target

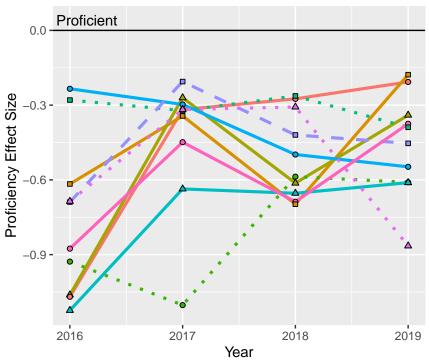
 Apply and extend previous understandings of multiplication and division to multiply and divide fractions.

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- Classify two-dimensional figures into categories based on their properties.
 Convert like measurement units within a
- given measurement system.

 Graph points on the coordinate plane
- to solve real–world and mathematical problems.
- Perform operations with multi–digit whole numbers and with decimals to hundredths.
- Understand concepts of volume and relate volume to multiplication and to addition.
- Understand the place value system.
- Use equivalent fractions as a strategy to add and subtract fractions.
- Write and interpret numerical expressions.

Grade 6 Target Performance



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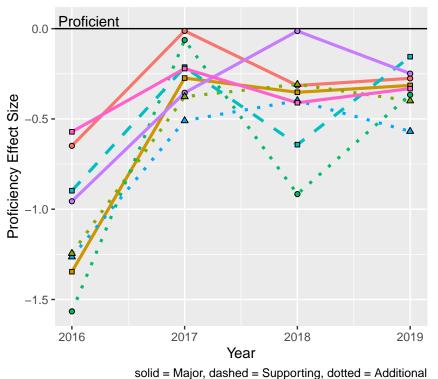
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Target

numbers.

- Apply and extend previous understandings of arithmetic to algebraic expressions.
 Apply and extend previous understandings
- of multiplication and division to divide fractions by fractions.
- Apply and extend previous understandings of numbers to the system of rational
- Compute fluently with multi-digit numbers and find common factors and
- multiples.
 Develop understanding of statistical variability.
- Reason about and solve one-variable equations and inequalities.
 Represent and analyze quantitative
- relationships between dependent and independent variables.
 Solve real–world and mathematical
- problems involving area, surface area, and volume.
- Summarize and describe distributions.
- Understand ratio concepts and use ratio reasoning to solve problems.

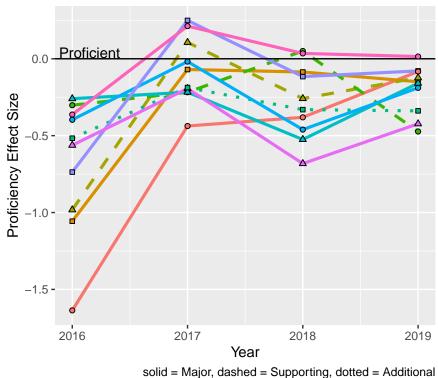
Grade 7 Target Performance



DRAFT

- Analyze proportional relationships and use them to solve real–world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.
- Draw, construct and describe geometrical figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability
- models.
 Solve real-life and mathematical
- problems involving angle measure, area, surface area, and volume.
 Solve real-life and mathematical
- problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
- Use random sampling to draw inferences about a population.

Grade 8 Target Performance

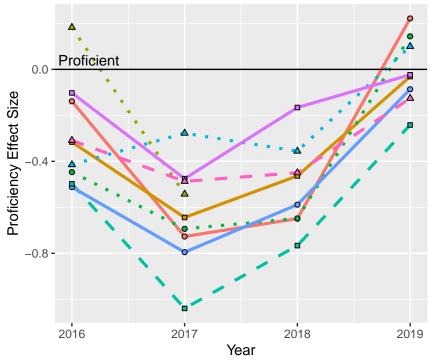


DRAFT

- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by rational numbers.
- Solve real-world and mathematical problems involving volume of cylinders, cones and spheres.
- Understand and apply the Pythagorean theorem.
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
- Work with radicals and integer exponents.

THE GILBERT SCHOOL

Grade 7 Target Performance



solid = Major, dashed = Supporting, dotted = Additional

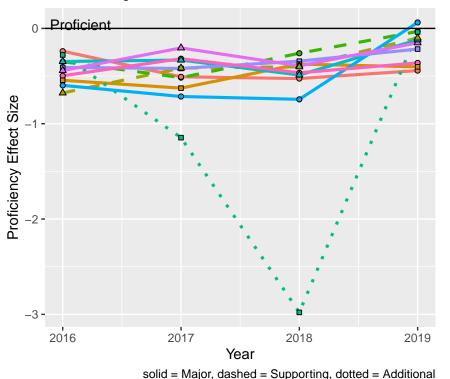
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- Analyze proportional relationships and use them to solve real–world and mathematical problems.
- Apply and extend previous understandings of operations with fractions to add
- of operations with fractions to add, subtract, multiply, and divide rational numbers.
- Draw informal comparative inferences about two populations.
 Draw, construct and describe geometrical
- • figures and describe the relationships between them.
- Investigate chance processes and develop, use, and evaluate probability models.
- Solve real–life and mathematical problems involving angle measure, area, surface area, and volume.
- Solve real–life and mathematical problems using numerical and algebraic expressions and equations.
- Use properties of operations to generate equivalent expressions.
 Use random sampling to draw inferences
- Use random sampling to draw inferences about a population.

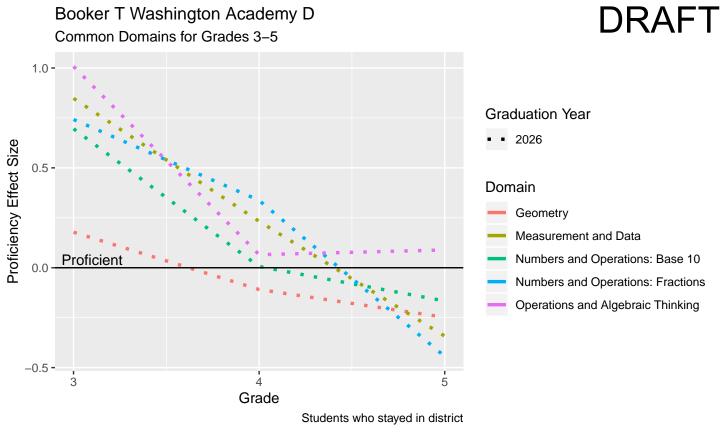
THE GILBERT SCHOOL

Grade 8 Target Performance



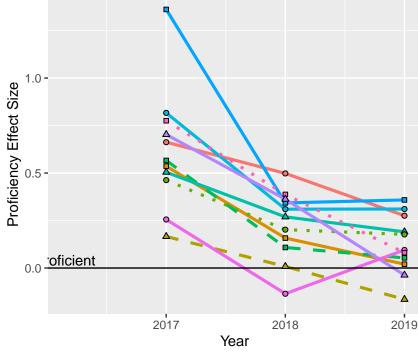


- Analyze and solve linear equations and pairs of simultaneous linear equations. Functions:Define, evaluate, and compare functions.
- Investigate patterns of association in bivariate data.
- Know that there are numbers that are not rational, and approximate them by
- rational numbers.
 Solve real–world and mathematical
- problems involving volume of cylinders, cones and spheres.Understand and apply the Pythagorean
- theorem
- Understand congruence and similarity using physical models, transparencies, or geometry software.
- Understand the connections between proportional relationships, lines, and linear equations.
- Use functions to model relationships between quantities.
 Work with radicals and integer
- Work with radicals and integer exponents.



Booker T Washington Academy D

Grade 3 Target Performance



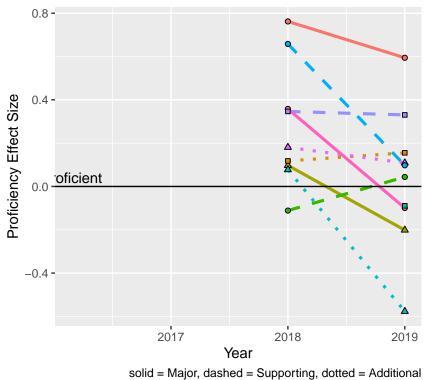
solid = Major, dashed = Supporting, dotted = Additional

DRAFT

- Develop understanding of fractions as numbers.
- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division.
- Solve problems involving measurement and estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four
 operations, and identify and explain
 patterns in arithmetic.
- Understand concepts of area and relate area to multiplication and to addition.
 Understand properties of multiplication
- and the relationship between multiplication and division.
 Use place value understanding and
- properties of arithmetic to perform multi–digit arithmetic.

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Grade 4 Target Performance



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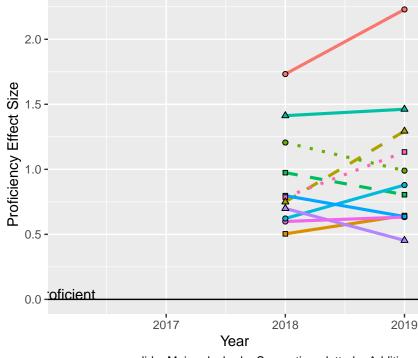
- Build fractions from unit fractions by applying and extending previous understandings of operations on whole numbers.
- Draw and identify lines and angles, and classify shapes by properties of their lines and angles.

 Extend understanding of fraction
- equivalence and ordering.

 Generalize place value understanding for multi-digit whole numbers.
- Generate and analyze patterns.
- Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit.
- understand concepts of angle and measure angles.
 Understand decimal notation for
- fractions, and compare decimal fractions.
- Use place value understanding and properties of operations to perform multi–digit arithmetic.
 Use the four operations with whole
- Use the four operations with whole numbers to solve problems.

Stamford Charter School for E

Grade 3 Target Performance



Target

Develop understanding of fractions as numbers.

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- Multiply and divide within 100.
- Reason with shapes and their attributes.
- recognize perimeter as an attribute of plane figures and distinguish between linear and area measures.
- Represent and interpret data.
- Represent and solve problems involving multiplication and division.
- multiplication and division.
 Solve problems involving measurement and estimation of intervals of time, liquid
- volumes, and masses of objects.
 Solve problems involving the four operations, and identify and explain
- patterns in arithmetic.
 Understand concepts of area and relate area to multiplication and to addition.
 Understand properties of multiplication
- and the relationship between multiplication and division.
- Use place value understanding and properties of arithmetic to perform multi-digit arithmetic.