Approved Facility Schools Safety Net Curriculum
Math Grades 6-8

6th Grade	7th Grade	8th Grade
NS.1 Apply and extend previous knowledge of multiplication and division in order to divide fractions by fractions. CAS 1.2.g and 1.2.h	RP Analyze proportional relationships and apply them to solve real-world and mathematical problems. CAS 1.1.a	NS.1 Classify real numbers as rational or irrational. CAS 1.1.a
NS.3 Compute with multi-digit numbers and multi-digit decimals to solve addition, subtraction, multiplication, and division problems. CAS 1.2.b	NS.1 Apply and incorporate understanding of operations of rational numbers. CAS 1.2.a	EE.1 Evaluate problems with radicals and integer exponents. CAS 1.1.d
NS.4 Use the distributive property to express a sum of two whole numbers 1–100 with a common factor as a multiple of a sum of two whole numbers with no common factor. CAS 1.2.e	EE.1, EE.2 Use and relate properties of operations to generate equivalent expressions. CAS 2.1.a.i and 2.1.a.ii	EE Demonstrate the connections between proportional relationships, lines, and linear equations. CAS 2.1.a
NS.6 Use number lines and coordinate planes to plot rational numbers, including the value of 0. CAS 1.3.b	EE.3, EE.4 Solve real-life and mathematical problems using numerical and algebraic expressions and equations. CAS 2.2.a and 2.2.c	EE.7 and EE.8 Analyze and solve linear equations and pairs of simultaneous linear equations. CAS 2.2.a and 2.2.b
NS.7 Compare and order rational numbers including absolute value. CAS 1.3.c	G Draw, construct, and describe geometrical figures and explain the relationship the relationship between them. CAS 4.1.a	F.1-3 Define, evaluate, and compare functions. CAS 2.3.a

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NS.8 Relate mathematical problems when graphing points in all 4 quadrants of a coordinate plane. CAS 1.3.d	G.6 Solve real-life and mathematical problems involving angle measure, area, surface area, and volume for triangles, quadrilaterals, polygons, cubes, and right prisms. CAS 4.2.d	F.4 and F.5 Model relationships between quantities as a function. CAS 2.3.b
RP.3 Use ratios, proportions, and rates to solve real-world problems. CAS 1.1.c	SP.2 Use random sampling to draw conclusions about a population. CAS 3.1.a.iii	G.1-5 Define, evaluate, and compare congruency and similarity. CAS 4.1.a-g
EE.6 Represent a number with a letter variable, and compare equations when a variable represents an unknown number. CAS 2.2.c and 2.2.c.i	SP.4 Compare two populations and draw conclusions about them. CAS 3.1.b.ii	G.6-8 Discover, illustrate, and apply the Pythagorean Theorem. CAS 4.2.a-c
EE.3, EE.4 Apply the properties of operations to generate equivalent expressions; identify when two expressions are equivalent (including those involving whole- number exponents, in the conventional order when there are no parentheses to specify Order of Operations). CAS 2.1.c and 2.1.d	SP.5, SP.6 and SP.7 Investigate chance processes and develop, use, and evaluate probability models. CAS 3.2.a-c	G.9 Solve real-world mathematical problems involving volumes of cylinders, cones, and spheres. CAS 4.2.d

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Math Grades 6-8

6th Grade	7th Grade	8th Grade
G.1, G.2 Solve real-world and mathematical problems involving area (right triangle, other triangles, special quadrilaterals, and polygons) and volume (right rectangular prism). CAS 4.1.a.ii and 4.1.b.iii		SP.4 Discover and validate patterns of association in bivariate data. CAS 3.1.e
SP.5 Integrate collected data to determine mean (average) and range as plotted on student-generated graphs. CAS 3.1.d.ii.3		
SP.5 Create an investigation using collected data on measurement graphs; interpret and explain all relationships. CAS 3.1.d.ii.2 and 3.1.d.ii.4		
Personal Financial Literacy CAS 1.1.c.vi. Use common fractions and percent's to calculate parts of whole numbers in problem situations including comparisons of savings rates at different financial institutions.	Personal Financial Literacy CAS 1.1.d.i Estimate and compute unit cost of consumables (to include unit conversions if necessary) sold in quantity to make purchase decisions based on cost and practicality.	Personal Financial Literacy CAS 2.3.b.vi Analyze how credit and debt impact personal financial goals.
Personal Financial Literacy CAS 1.1.c.vii Express the comparison of two whole number quantities using differences, part-to-part ratios, and part-to-whole ratios in real contexts, including investing and saving.	Personal Financial Literacy CAS 1.1.d.ii Solve problems involving percent of a number, discounts, taxes, simple interest, percent increase, and percent decrease.	

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