

SASD Curriculum Map

Content Area: MATH

Course: Math 6

UNIT Title/Focus	The Number System		TIME OF YEAR/LENGTH <i>(E.G. Oct-Nov/3 weeks)</i>	September-October
DRIVING QUESTION(S)	Solve real-world and mathematical problems involving division of fractions. Computation with multi digit numbers using the four arithmetic operations with or without a calculator.			
CONTENT VOCABULARY	See 2014 Mathematics Glossary to the Assessment Anchors and the Eligible Content http://www.portal.state.pa.us/portal/server.pt/community/state_assessment_system/20965/p/1329672			
TOPIC	ELIGIBLE CONTENT/ STANDARDS	OBJECTIVES	ASSESSMENT	RESOURCES
Division of Fractions	M06.A-N.1.1.1	Interpret and compute quotients of fractions (including mixed numbers), and solve word problems involving division of fractions by fractions.	Quizzes, worksheets and Study Island	Study Island, Mathematics course 2 book and PSSA review books.
Arithmetic with Decimals Arithmetic with Whole Numbers	M06.A-N.2.1.1	Solve problems involving operations (+, -, ×, and ÷) with whole numbers, decimals (through thousandths), straight computation, or word problems.	Quizzes, worksheets and Study Island	Study Island, Mathematics course 2 book and PSSA review books.
Number Theory	M06.A-N.2.2.1	Find the greatest common factor of two whole numbers less than or equal to 100 and the least common multiple of two whole numbers less than or equal to 12.	Quizzes, worksheets and Study Island	Study Island, Mathematics course 2 book and PSSA review books.

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UNIT Title/Focus	The Number System	TIME OF YEAR/LENGTH <i>(E.G. Oct-Nov/3 weeks)</i>	September-October	
DRIVING QUESTION(S)	Solve real-world and mathematical problems involving division of fractions. Compute with multi-digit numbers using the four arithmetic operations with or without a calculator. Apply and extend previous understandings of numbers to the system of rational numbers.			
CONTENT VOCABULARY	See 2014 Mathematics Glossary to the Assessment Anchors and the Eligible Content http://www.portal.state.pa.us/portal/server.pt/community/state_assessment_system/20965/p/1329672			
TOPIC	ELIGIBLE CONTENT/ STANDARDS	OBJECTIVES	ASSESSMENT	RESOURCES
Number Theory	M06.A-N.2.2.2	Apply the distributive property to express a sum of two whole numbers, 1 through 100, with a common factor as a multiple of a sum of two whole numbers with no common factor.	Quizzes, worksheets and Study Island	Study Island, Mathematics course 2 book and PSSA review books.
Negative and Positive Numbers	M06.A-N.3.1.1	Represent quantities in real-world contexts using positive and negative numbers, explaining the meaning of 0 in each situation (e.g., temperature above/below zero, elevation above/below sea level, credits/debits, positive/negative electric charge).	Quizzes, worksheets and Study Island	Study Island, Mathematics course 2 book and PSSA review books.

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DRIVING QUESTION(S)	Apply and extend previous understandings of numbers to the system of rational numbers.			
CONTENT VOCABULARY	See 2014 Mathematics Glossary to the Assessment Anchors and the Eligible Content http://www.portal.state.pa.us/portal/server.pt/community/state_assessment_system/20965/p/1329672			
TOPIC	ELIGIBLE CONTENT/ STANDARDS	OBJECTIVES	ASSESSMENT	RESOURCES
Number Lines	M06.A-N.3.1.2	Determine the opposite of a number and recognize that the opposite of the opposite of a number is the number itself (e.g., $-(-3) = 3$; 0 is its own opposite).	Quizzes, worksheets and Study Island	Study Island, Mathematics course 2 book and PSSA review books.
Coordinate Planes Number Lines	M06.A-N.3.1.3	Locate and plot integers and other rational numbers on a horizontal or vertical number line; locate and plot pairs of integers and other rational numbers on a coordinate plane.	Quizzes, worksheets and Study Island	Study Island, Mathematics course 2 book and PSSA review books.

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DRIVING QUESTION(S)	Apply and extend previous understandings of numbers to the system of rational numbers.			
CONTENT VOCABULARY	See 2014 Mathematics Glossary to the Assessment Anchors and the Eligible Content http://www.portal.state.pa.us/portal/server.pt/community/state_assessment_system/20965/p/1329672			
TOPIC	ELIGIBLE CONTENT/ STANDARDS	OBJECTIVES	ASSESSMENT	RESOURCES
Negative and Positive Numbers	M06.A-N.3.2.1	Write, interpret, and explain statements of order for rational numbers in real-world contexts.	Quizzes, worksheets and Study Island	Study Island, Mathematics course 2 book and PSSA review books.
Absolute Value	M06.A-N.3.2.2	Interpret the absolute value of a rational number as its distance from 0 on the number line and as a magnitude for a positive or negative quantity in a real-world situation.	Quizzes, worksheets and Study Island	Study Island, Mathematics course 2 book and PSSA review books.
Coordinate Geometry	M06.A-N.3.2.3	Solve real-world and mathematical problems by plotting points in all four quadrants of the coordinate plane. Include use of coordinates and absolute value to find distances between points with the same first coordinate or the same second coordinate.	Quizzes, worksheets and Study Island	Study Island, Mathematics course 2 book and PSSA review books.

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UNIT Title/Focus	Ratios and Proportional Relationships	TIME OF YEAR/LENGTH <i>(E.G. Oct-Nov/3 weeks)</i>	October	
DRIVING QUESTION(S)	Understand ratio concepts and use ratio reasoning to solve problems.			
CONTENT VOCABULARY	See 2014 Mathematics Glossary to the Assessment Anchors and the Eligible Content http://www.portal.state.pa.us/portal/server.pt/community/state_assessment_system/20965/p/1329672			
TOPIC	ELIGIBLE CONTENT/ STANDARDS	OBJECTIVES	ASSESSMENT	RESOURCES
Ratios and Ratio Language	M06.A-R.1.1.1	Use ratio language notation (such as 3 to 4, 3:4, 3/4) to describe a ratio relationship between two quantities.	Quizzes, worksheets and Study Island	Study Island, Mathematics course 2 book and PSSA review books.
Unit Rates	M06.A-R.1.1.2	Find the unit rate a/b associated with a ratio $a:b$ (with $b \neq 0$) and use rate language in the context of a ratio relationship.	Quizzes, worksheets and Study Island	Study Island, Mathematics course 2 book and PSSA review books.
Units of Measurement	M06.A-R.1.1.3	Construct tables of equivalent ratios relating quantities with whole-number measurements, find missing values in the tables, and/or plot the pairs of values on the coordinate plane. Use tables to compare ratios.	Quizzes, worksheets and Study Island	Study Island, Mathematics course 2 book and PSSA review books.

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UNIT Title/Focus	Ratios and Proportional Relationships Expressions and Equations	TIME OF YEAR/LENGTH <i>(E.G. Oct-Nov/3 weeks)</i>	November	
DRIVING QUESTION(S)	Understand ratio concepts and use ratio reasoning to solve problems. Apply and extend previous understandings of arithmetic to numerical and algebraic expressions.			
CONTENT VOCABULARY	See 2014 Mathematics Glossary to the Assessment Anchors and the Eligible Content http://www.portal.state.pa.us/portal/server.pt/community/state_assessment_system/20965/p/1329672			
TOPIC	ELIGIBLE CONTENT/ STANDARDS	OBJECTIVES	ASSESSMENT	RESOURCES
Unit Rates	M06.A-R.1.1.4	Solve unit rate problems including those involving unit pricing and constant speed.	Quizzes, worksheets and Study Island	Study Island, Mathematics course 2 book and PSSA review books.
Percents	M06.A-R.1.1.5	Find a percent of a quantity as a rate per 100 (e.g., 30% of a quantity means 30/100 times the quantity); solve problems involving finding the whole, given a part and the percentage.	Quizzes, worksheets and Study Island	Study Island, Mathematics course 2 book and PSSA review books.
Evaluate Expressions Write Expressions	M06.B-E.1.1.1	Write and evaluate numerical expressions involving whole-number exponents.	Quizzes, worksheets and Study Island	Study Island, Mathematics course 2 book and PSSA review books.

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UNIT Title/Focus	Ratios and Proportional Relationships Expressions and Equations	TIME OF YEAR/LENGTH <i>(E.G. Oct-Nov/3 weeks)</i>	November-December	
DRIVING QUESTION(S)	Apply and extend previous understandings of arithmetic to numerical and algebraic expressions.			
CONTENT VOCABULARY	See 2014 Mathematics Glossary to the Assessment Anchors and the Eligible Content http://www.portal.state.pa.us/portal/server.pt/community/state_assessment_system/20965/p/1329672			
TOPIC	ELIGIBLE CONTENT/ STANDARDS	OBJECTIVES	ASSESSMENT	RESOURCES
Write Expressions	M06.B-E.1.1.2	Write algebraic expressions from verbal descriptions.	Quizzes, worksheets and Study Island	Study Island, Mathematics course 2 book and PSSA review books.
Write Expressions	M06.B-E.1.1.3	Identify parts of an expression using mathematical terms (e.g., sum, term, product, factor, quotient, coefficient, quantity).	Quizzes, worksheets and Study Island	Study Island, Mathematics course 2 book and PSSA review books.
Evaluate Expressions	M06.B-E.1.1.4	Evaluate expressions at specific values of their variables, including expressions that arise from formulas used in real-world problems.	Quizzes, worksheets and Study Island	Study Island, Mathematics course 2 book and PSSA review books.

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UNIT Title/Focus	Ratios and Proportional Relationships Expressions and Equations	TIME OF YEAR/LENGTH <i>(E.G. Oct-Nov/3 weeks)</i>	December-January	
DRIVING QUESTION(S)	Apply and extend previous understandings of arithmetic to numerical and algebraic expressions. Create, solve, and interpret one-variable equations or inequalities in real-world and mathematical problems.			
CONTENT VOCABULARY	See 2014 Mathematics Glossary to the Assessment Anchors and the Eligible Content http://www.portal.state.pa.us/portal/server.pt/community/state_assessment_system/20965/p/1329672			
TOPIC	ELIGIBLE CONTENT/ STANDARDS	OBJECTIVES	ASSESSMENT	RESOURCES
Equivalent Expressions	M06.B-E.1.1.5	Apply the properties of operations to generate equivalent expressions.	Quizzes, worksheets and Study Island	Study Island, Mathematics course 2 book and PSSA review books.
Solve Equations and Inequalities	M06.B-E.2.1.1	Use substitution to determine whether a given number in a specified set makes an equation or inequality true.	Quizzes, worksheets and Study Island	Study Island, Mathematics course 2 book and PSSA review books.
Symbolize Problem Situations	M06.B-E.2.1.2	Write algebraic expressions to represent real-world or mathematical problems.	Quizzes, worksheets and Study Island	Study Island, Mathematics course 2 book and PSSA review books.

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UNIT Title/Focus	Ratios and Proportional Relationships Expressions and Equations	TIME OF YEAR/LENGTH <i>(E.G. Oct-Nov/3 weeks)</i>	January	
DRIVING QUESTION(S)	Create, solve, and interpret one-variable equations or inequalities in real-world and mathematical problems. Use variables to represent two quantities in a real-world problem that change in relationship to one another.			
CONTENT VOCABULARY	See 2014 Mathematics Glossary to the Assessment Anchors and the Eligible Content http://www.portal.state.pa.us/portal/server.pt/community/state_assessment_system/20965/p/1329672			
TOPIC	ELIGIBLE CONTENT/ STANDARDS	OBJECTIVES	ASSESSMENT	RESOURCES
Number Sentences	M06.B-E.2.1.3	Solve real-world and mathematical problems by writing and solving equations in the form $x + p = q$ and $px = q$ for cases in which p , q , and x are all non-negative rational numbers.	Quizzes, worksheets and Study Island	Study Island, Mathematics course 2 book and PSSA review books.
Number Sentences	M06.B-E.2.1.4	Write an inequality of the form $x > c$ or $x < c$ to represent a constraint or condition in a real-world or mathematical problem and/or represent solutions of such inequalities on number lines.	Quizzes, worksheets and Study Island	Study Island, Mathematics course 2 book and PSSA review books.
Quantitative Relationships	M06.B-E.3.1.1	Write an equation to express the relationship between the dependent and independent variables.	Quizzes, worksheets and Study Island	Study Island, Mathematics course 2 book and PSSA review books.

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UNIT Title/Focus	Expressions and Equations Geometry	TIME OF YEAR/LENGTH <i>(E.G. Oct-Nov/3 weeks)</i>	January-February	
DRIVING QUESTION(S)	Use variables to represent two quantities in a real-world problem that change in relationship to one another. Find area, surface area, and volume by applying formulas and using various strategies.			
CONTENT VOCABULARY	See 2014 Mathematics Glossary to the Assessment Anchors and the Eligible Content http://www.portal.state.pa.us/portal/server.pt/community/state_assessment_system/20965/p/1329672			
TOPIC	ELIGIBLE CONTENT/ STANDARDS	OBJECTIVES	ASSESSMENT	RESOURCES
Quantitative Relationships	M06.B-E.3.1.2	Analyze the relationship between the dependent and independent variables using graphs and tables and/or relate these to an equation.	Quizzes, worksheets and Study Island	Study Island, Mathematics course 2 book and PSSA review books.
Area	M06.C-G.1.1.1	Determine the area of triangles and special quadrilaterals (i.e., square, rectangle, parallelogram, rhombus, and trapezoid).	Quizzes, worksheets and Study Island	Study Island, Mathematics course 2 book and PSSA review books.
Area	M06.C-G.1.1.2	Determine the area of irregular or compound polygons	Quizzes, worksheets and Study Island	Study Island, Mathematics course 2 book and PSSA review books.

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UNIT Title/Focus	Geometry	TIME OF YEAR/LENGTH <i>(E.G. Oct-Nov/3 weeks)</i>	February	
DRIVING QUESTION(S)	Find area, surface area, and volume by applying formulas and using various strategies.			
CONTENT VOCABULARY	See 2014 Mathematics Glossary to the Assessment Anchors and the Eligible Content http://www.portal.state.pa.us/portal/server.pt/community/state_assessment_system/20965/p/1329672			
TOPIC	ELIGIBLE CONTENT/ STANDARDS	OBJECTIVES	ASSESSMENT	RESOURCES
Surface Area and Volume	M06.C-G.1.1.3	Determine the volume of right rectangular prisms with fractional edge lengths.	Quizzes, worksheets and Study Island	Study Island, Mathematics course 2 book and PSSA review books.
Coordinate Geometry	M06.C-G.1.1.4	Given coordinates for the vertices of a polygon in the plane, use the coordinates to find side lengths and area of the polygon (limited to triangles and special quadrilaterals).	Quizzes, worksheets and Study Island	Study Island, Mathematics course 2 book and PSSA review books.
Surface Area and Volume	M06.C-G.1.1.5	Represent three-dimensional figures using nets made of rectangles and triangles.	Quizzes, worksheets and Study Island	Study Island, Mathematics course 2 book and PSSA review books.

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UNIT Title/Focus	Geometry Statistics and Probability	TIME OF YEAR/LENGTH <i>(E.G. Oct-Nov/3 weeks)</i>	February-March	
DRIVING QUESTION(S)	Find area, surface area, and volume by applying formulas and using various strategies. Display, analyze, and summarize numerical data sets in relation to their context.			
CONTENT VOCABULARY	See 2014 Mathematics Glossary to the Assessment Anchors and the Eligible Content http://www.portal.state.pa.us/portal/server.pt/community/state_assessment_system/20965/p/1329672			
TOPIC	ELIGIBLE CONTENT/ STANDARDS	OBJECTIVES	ASSESSMENT	RESOURCES
Surface Area and Volume	M06.C-G.1.1.6	Determine the surface area of triangular and rectangular prisms (including cubes).	Quizzes, worksheets and Study Island	Study Island, Mathematics course 2 book and PSSA review books.
Graphing and Interpreting Data	M06.D-S.1.1.1	Display numerical data in plots on a number line, including line plots, histograms, and box-and-whisker plots.	Quizzes, worksheets and Study Island	Study Island, Mathematics course 2 book and PSSA review books.
Graphing and Interpreting Data Statistical Analysis	M06.D-S.1.1.2	Determine quantitative measures of center (e.g., median, mean, mode) and variability (e.g., range, interquartile range, mean absolute deviation).	Quizzes, worksheets and Study Island	Study Island, Mathematics course 2 book and PSSA review books.

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UNIT Title/Focus	Statistics and Probability		TIME OF YEAR/LENGTH <i>(E.G. Oct-Nov/3 weeks)</i>	March
DRIVING QUESTION(S)	Display, analyze, and summarize numerical data sets in relation to their context.			
CONTENT VOCABULARY	See 2014 Mathematics Glossary to the Assessment Anchors and the Eligible Content http://www.portal.state.pa.us/portal/server.pt/community/state_assessment_system/20965/p/1329672			
TOPIC	ELIGIBLE CONTENT/ STANDARDS	OBJECTIVES	ASSESSMENT	RESOURCES
Graphing and Interpreting Data Statistical Analysis	M06.D-S.1.1.3	Describe any overall pattern and any deviations from the overall pattern with reference to the context in which the data were gathered.	Quizzes, worksheets and Study Island	Study Island, Mathematics course 2 book and PSSA review books.
Statistical Analysis	M06.D-S.1.1.4	Relate the choice of measures of center and variability to the shape of the data distribution and the context in which the data were gathered.	Quizzes, worksheets and Study Island	Study Island, Mathematics course 2 book and PSSA review books.
All	All 6 th grade standards	Review of all the topics and standards September-March for the PSSA	Quizzes, worksheets and Study Island	Study Island, Mathematics course 2 book and PSSA review books.

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UNIT Title/Focus	Expressions and Equations Statistics and Probability	TIME OF YEAR/LENGTH <i>(E.G. Oct-Nov/3 weeks)</i>	April-May-June	
DRIVING QUESTION(S)	Represent expressions in equivalent forms. Use Random sampling to draw inferences about a population.			
CONTENT VOCABULARY	See 2014 Mathematics Glossary to the Assessment Anchors and the Eligible Content http://www.portal.state.pa.us/portal/server.pt/community/state_assessment_system/20965/p/1329672			
TOPIC	ELIGIBLE CONTENT/ STANDARDS	OBJECTIVES	ASSESSMENT	RESOURCES
Linear Expressions	M07.B-E.1	Use properties of operations to generate equivalent expressions.	Quizzes, worksheets and Study Island	Study Island, Mathematics course 2 book and PSSA review books.
Statistical Analysis	M07.D-S.3	Predict or determine the likelihood of outcomes.	Quizzes, worksheets and Study Island	Study Island, Mathematics course 2 book and PSSA review books.