

SASD Curriculum Map

Content Area: MATH

Course: Math 7

UNIT Title/Focus	The Number System		TIME OF YEAR/LENGTH (E.G. Oct-Nov/3 weeks)	September
DRIVING QUESTION(S)	Apply and extend previous understandings of operations to add, subtract, multiply and divide rational numbers. Solve real world and mathematical problems involving the four operations with 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
Properties of Addition and Subtraction	M07.A-N.1.1.1	Apply properties of operations to add and subtract rational numbers, including real-world contexts.	Quizzes, worksheets and Study Island	Study Island, Pre-Algebra text and PSSA review books.
Properties of Addition and Subtraction	M07.A-N.1.1.2	Represent addition and subtraction on a horizontal or vertical number line.	Quizzes, worksheets and Study Island	Study Island, Pre-Algebra text and PSSA review books.
Properties of Multiplication and Division	M07.A-N.1.1.3	Apply properties of operations to multiply and divide rational numbers including real world contexts. Also demonstrate that the decimal form of a rational number terminates or eventually repeats.	Quizzes, worksheets and Study Island	Study Island, Pre-Algebra text and PSSA review books.

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UNIT Title/Focus	Expressions and Equations		TIME OF YEAR/LENGTH (E.G. Oct-Nov/3 weeks)	October
DRIVING QUESTION(S)	<p align="center"> Represent expressions in equivalent expressions. Use properties of operations to generate equivalent expressions. </p>			
CONTENT VOCABULARY	<p align="center"> 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 </p>			
TOPIC	ELIGIBLE CONTENT/ STANDARDS	OBJECTIVES	ASSESSMENT	RESOURCES
Linear Expressions	M07.B-E.1.1.1	Apply properties of operations to add, subtract, factor and expand linear expressions with rational coefficients.	Quizzes, worksheets and Study Island	Study Island, Pre-Algebra text and PSSA review books.
Multi-Step Real World Problems	M07.B-E.2.1.1	Solve multi-step and mathematical problems posed with positive and negative rational numbers.	Quizzes, worksheets and Study Island	Study Island, Pre-Algebra text and PSSA review books.
Multi-Step Real World Problems and Percents	M07.B-E.2.1.1	Apply properties of operations to calculate with numbers in any form; convert between forms.	Quizzes, worksheets and Study Island	Study Island, Pre-Algebra text and PSSA review books.

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UNIT Title/Focus	Expressions and Equations		TIME OF YEAR/LENGTH (E.G. Oct-Nov/3 weeks)	November
DRIVING QUESTION(S)	<p>Represent expressions in equivalent expressions. Use variables to represent quantities in a real-world or mathematical problem and construct simple equations and inequalities to solve problems.</p>			
CONTENT VOCABULARY	<p>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</p>			
TOPIC	ELIGIBLE CONTENT/ STANDARDS	OBJECTIVES	ASSESSMENT	RESOURCES
Symbolize and Solve Equations	M07.B-E.2.2.1	Solve work problems leading to equations of the form $px + q = r$ and $p(x + q) = r$ where p , q , and r are specific rational numbers.	Quizzes, worksheets and Study Island	Study Island, Pre-Algebra text and PSSA review books.
Symbolize and Solve Inequalities	M07.B-E.2.2.2	Solve word problems leading to inequalities of the form $px + q > r$ or $px + q < r$, where p , q , r are specific rational numbers and graph the inequality.	Quizzes, worksheets and Study Island	Study Island, Pre-Algebra text and PSSA review books.
Multi-Step Real World Problems	M07.B-E.2.3.1	Determine the reasonableness of answers or interpret the solution in the context of the problem.	Quizzes, worksheets and Study Island	Study Island, Pre-Algebra text and PSSA review books.

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UNIT Title/Focus	Ratios and Proportional Relationships		TIME OF YEAR/LENGTH (E.G. Oct-Nov/3 weeks)	December-January
DRIVING QUESTION(S)	Demonstrate an understanding of proportional relationships. Analyze, recognize and represent proportional relationships and use them to solve 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
Unit Rates	M07.A-R.1.1.1	Compute unit rates associated with ratios of fractions, including ratios of lengths, areas and other quantities measured in like or different units.	Quizzes, worksheets and Study Island	Study Island, Pre-Algebra text and PSSA review books.
Proportional Relationships	M07.A-R.1.1.2	Determine whether two quantities are proportionally related by testing for equivalent ratios in a table or on a graph.	Quizzes, worksheets and Study Island	Study Island, Pre-Algebra text and PSSA review books.
Unit Rates	M07.A-R.1.1.3	Identify the constant of proportionality in tables, graphs, equations, diagrams, and verbal descriptions of proportional relationships.	Quizzes, worksheets and Study Island	Study Island, Pre-Algebra text and PSSA review books.

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UNIT Title/Focus	Ratios and Proportional Relationships	TIME OF YEAR/LENGTH (E.G. Oct-Nov/3 weeks)	January-February	
DRIVING QUESTION(S)	Demonstrate an understanding of proportional relationships. Analyze, recognize and represent proportional relationships and use them to solve 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
Proportional Relationships	M07.A-R.1.1.4	Represent proportional relationships by equations.	Quizzes, worksheets and Study Island	Study Island, Pre-Algebra text and PSSA review books.
Proportional Relationships and Unit Rates	M07.A-R.1.1.5	Explain what a point on the graph of a proportional relationship means in terms of the situation, especially the origin and the unit rate.	Quizzes, worksheets and Study Island	Study Island, Pre-Algebra text and PSSA review books.
Percents and Ratios and Proportions	M07.A-R.1.1.6	Use proportional relationships to solve multi-step ratio and percent problems	Quizzes, worksheets and Study Island	Study Island, Pre-Algebra text and PSSA review books.

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Course: Math 7

UNIT Title/Focus	Statistics and Probability		TIME OF YEAR/LENGTH (E.G. Oct-Nov/3 weeks)	February
DRIVING QUESTION(S)	Use random sampling to draw inferences about a population. Draw comparative inferences about proportions.			
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
Sampling Analysis	M07.D-S.1.1.1	Determine whether a sample is a random sample given a real world situation.	Quizzes, worksheets and Study Island	Study Island, Pre-Algebra text and PSSA review books.
Sampling Analysis	M07.D-S.1.1.2	Use data from a random sample to draw inferences about a population with an unknown characteristic of interest.	Quizzes, worksheets and Study Island	Study Island, Pre-Algebra text and PSSA review books.
Comparing Statistics- Central Tendency and Variability	M07.D-S.2.1.1	Use statistical measures to compare two numerical data distributions. Compare two numerical data distributions using measures of center and variability.	Quizzes, worksheets and Study Island	Study Island, Pre-Algebra text and PSSA review books.

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UNIT Title/Focus	Statistics and Probability		TIME OF YEAR/LENGTH (E.G. Oct-Nov/3 weeks)	February
DRIVING QUESTION(S)	Investigate chance processes and develop, use and evaluate probability models.			
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
Probability	M07.D-S.3.1.1	Predict the likelihood of outcomes. Predict or determine whether some outcomes are certain, more likely, less likely, equally likely or impossible.	Quizzes, worksheets and Study Island	Study Island, Pre-Algebra text and PSSA review books.
Probability	M07.D-S.3.2.1	Use probability to predict outcomes. Determine the probability of a chance event given relative frequency. Predict the approximate relative frequency given the probability.	Quizzes, worksheets and Study Island	Study Island, Pre-Algebra text and PSSA review books.
Probability	M07.D-S.3.2.2 and 3	Find the probability of a simple event and the event of it not occurring. Find probabilities of independent compound events using lists, tables, trees and simulation.	Quizzes, worksheets and Study Island	Study Island, Pre-Algebra text and PSSA review books.

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UNIT Title/Focus	Geometry		TIME OF YEAR/LENGTH (E.G. Oct-Nov/3 weeks)	March
DRIVING QUESTION(S)	<p align="center"> Demonstrate an understanding of geometric figures and their properties. Solve real world and mathematical problems involving angle measure, circumference, area, surface area and volume. </p>			
CONTENT VOCABULARY	<p align="center"> 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 </p>			
TOPIC	ELIGIBLE CONTENT/ STANDARDS	OBJECTIVES	ASSESSMENT	RESOURCES
Angles	M07.C-G.2.1.1	Identify and us properties of supplementary, complementary and adjacent angles in a multistep problem to write and solve simple equations for an unknown angle in a figure.	Quizzes, worksheets and Study Island	Study Island, Pre-Algebra text and PSSA review books.
Angles	M07.C-G.2.1.2	Identify and use properties of angles formed when two parallel lines are cut by a transversal. With formulas.	Quizzes, worksheets and Study Island	Study Island, Pre-Algebra text and PSSA review books.
Circles Area, Surface Area and Volume	M07.C-G.2.2.1 and 2	Find the area of circumference of a circle. Solve problems involving area and circumference of a circle. Solve real world and mathematical problems involving area, volume and surface area of two and three dimensional objects made up of triangles, quadrilaterals, polygons, cubes and right prisms. With formulas.	Quizzes, worksheets and Study Island	Study Island, Pre-Algebra text and PSSA review books.

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UNIT Title/Focus	Prepare for Algebra I		TIME OF YEAR/LENGTH (E.G. Oct-Nov/3 weeks)	April - June
DRIVING QUESTION(S)	Review for PSSA exam and prepare for Algebra I			
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
All	All	Review for the PSSA Exam – all topics and standards	Quizzes, worksheets and Study Island	Study Island, Pre-Algebra text and PSSA review books.
Linear Expressions	M07.B-E.1	Represent expressions in equivalent forms. Learn to solve two step equations, multistep equations, and equations with variables on both sides.	Quizzes, worksheets and Study Island	Study Island, Pre-Algebra text and PSSA review books.
Probability	M07.D-S.3.1	Investigate chance processes and develop, use and evaluate probability models.	Quizzes, worksheets and Study Island	Study Island, Pre-Algebra text and PSSA review books.