

6th Mathematics Pacing Guide (by quarter)

Date Completed	Pacing	SPI	State Performance Indicator	Standard Category
			6th Grade Math Curriculum Pacing Guide Effective August 2009	
	5th grade/ 1A	SPI 0606.3.2	Use order of operations and parentheses to simplify expressions and solve problems.	Algebra
	5th grade/ 1A	SPI 0606.3.4	Rewrite expressions to represent quantities in different ways.	Algebra
	5th grade/ 1A	SPI 0606.3.9	Graph ordered pairs of integers in all four quadrants of the Cartesian coordinate system.	Algebra
	5th grade/ 1A	SPI 0606.2.7	Locate positive rational numbers on a number line.	Number and Operations
	5th grade/ 1A	SPI 0606.2.8	Locate integers on the number line.	Number and Operations
	5th grade/ 1A	SPI 0606.1.3	Use concrete, pictorial, and symbolic representation for integers.	Mathematical Processes
	1B	SPI 0606.1.5	Model algebraic expressions using algebra tiles.	Mathematical Processes
	1B	SPI 0606.3.1	Represent on a number line the solution of a linear inequality.	Algebra
	1B	SPI 0606.3.3	Write equations that correspond to given situations or represent a given mathematical relationship.	Algebra
	1B	SPI 0606.3.5	Translate between verbal expressions/sentences and algebraic expressions/equations.	Algebra
	1B	SPI 0606.3.7	Use algebraic expressions and properties to analyze numeric and geometric patterns.	Algebra
	1B	SPI 0606.3.8	Select the qualitative graph that models a contextual situation (e.g., water filling then draining from a bathtub).	Algebra
	1B	SPI 0606.2.3	Solve problems involving the addition, subtraction, multiplication, and division of decimals.	Number and Operations

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	2A	SPI 0606.3.6	Solve two-step linear equations using number sense, properties, and inverse operations.	Algebra
	2A	SPI 0606.1.2	Judge the reasonableness of the results of rational number estimates and/or computations.	Mathematical Processes
	2A	SPI 0606.1.1	Make conjectures and predictions based on data.	Mathematical Processes
	2A and 2B	SPI 0606.1.4	Select the representation that models one of the arithmetic properties (commutative, associative, or distributive).	Mathematical Processes
	2A and 2B	SPI 0606.2.1	Solve problems involving the multiplication and division of fractions.	Number and Operations
	2A and 2B	SPI 0606.2.2	Solve problems involving the addition, subtraction, multiplication, and division of mixed numbers.	Number and Operations
	2A and 2B	SPI 0606.2.4	Solve multi-step arithmetic problems using fractions, mixed numbers, and decimals.	Number and Operations
	2B	SPI 0606.2.5	Transform numbers from one form to another (fractions, decimals, percents, and mixed numbers).	Number and Operations
	2B	SPI 0606.2.6	Solve problems involving ratios, rates and percents.	Number and Operations
	3A	SPI 0606.4.1	Identify, define or describe geometric shapes given a visual representation or a written description of its properties.	Geometry and Measurement
	3A	SPI 0606.4.2	Find a missing angle measure in problems involving interior/exterior angles and/or their sums.	Geometry and Measurement
	3A	SPI 0606.4.3	Solve problems using the Triangle Inequality Theorem.	Geometry and Measurement
	3A	SPI 0606.4.4	Calculate with circumferences and areas of circles.	Geometry and Measurement
	3A and 3B	SPI 0606.4.5	Determine the surface area and volume of prisms, pyramids and cylinders.	Geometry and Measurement
	3A and 3B	SPI 0606.4.6	Given the volume of a cone/pyramid, find the volume of the related cylinder/prism or vice versa.	Geometry and Measurement
	3B	SPI 0606.5.1	Determine the theoretical probability of simple and compound events in familiar contexts.	Data Analysis, Probability, and Statistics

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	3B	SPI0606.5.2	Identify features of graphs that may be misleading.	Data Analysis, Probability, and Statistics
	3B	SPI 0606.5.3	Determine whether or not a sample is biased.	Data Analysis, Probability, and Statistics
	4A/4B/ 7th Grade	SPI 0706.2.1	Simplify numerical expressions involving rational numbers.	Number and Operations
	4A/4B/ 7th Grade	SPI 0706.2.2	Compare rational numbers using appropriate inequality symbols.	Number and Operations
	4A/4B/ 7th Grade	SPI 0706.2.3	Use rational numbers and roots of perfect squares/cubes to solve contextual problems.	Number and Operations