

8th Grade Mathematics Pacing Guide (by quarter)

8th Grade Math Curriculum Pacing Guide				
Date Completed	Pacing	SPI	State Performance Indicator	Standard Category
			8th Grade Math Curriculum Pacing Guide Effective August 2009	
	7th grade/1A	SPI 0806.2.1	Order and compare rational and irrational numbers and locate them on the number line.	Number and Operations
	7th grade/1A	SPI 0806.2.2	Identify numbers and square roots as rational or irrational.	Number and Operations
	7th grade/1A	SPI 0806.2.3	Use scientific notation to compute products and quotients.	Number and Operations
	7th grade/1A	SPI 0806.2.4	Solve real-world problems requiring scientific notation.	Number and Operations
	1B	SPI 0806.1.1	Solve problems involving rate/time/distance (i.e., $d=rt$).	Mathematical Processes
	1B	SPI 0806.1.2	Interpret a qualitative graph representing a contextual situation.	Mathematical Processes
	1B	SPI 0806.1.3	Calculate rates involving cost per unit to determine the best buy.	Mathematical Processes
	2A	SPI 0806.4.1	Use the Pythagorean Theorem to solve contextual problems.	Geometry and Measurement
	2A	SPI 0806.4.2	Apply the Pythagorean Theorem to find distances between points in the coordinate plane to measure lengths and analyze polygons and polyhedra.	Geometry and Measurement
	2A	SPI 0806.4.3	Find measures of the angles formed by parallel lines cut by a transversal.	Geometry and Measurement
	2A	SPI 0806.4.5	Identify the intersection of two or more geometric figures in the plane.	Geometry and Measurement
	2B	SPI 0806.5.1	Calculate probabilities of events for simple experiments with equally probable outcomes.	Data Analysis, Statistics, and Probability

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	2B	SPI 0806.5.2	Use a variety of methods to compute probabilities for compound events (e.g., multiplication, organized lists, tree diagrams, area models).	Data Analysis, Statistics, and Probability
	2B	SPI 0806.5.3	Generalize the relationship between two sets of data using scatterplots and lines of best fit.	Data Analysis, Statistics, and Probability
	2B	SPI 0806.5.4	Recognize misrepresentations of published data in the media.	Data Analysis, Statistics, and Probability
	3A	SPI 0806.3.2	Solve the linear equation $f(x)=g(x)$.	Algebra
	3A	SPI 0806.3.4	Translate between various representations of a linear function.	Algebra
	3A	SPI 0806.3.5	Determine the slope of a line from an equation, two given points, a table or a graph.	Algebra
	3A	SPI 0806.3.6	Analyze the graph of a linear function to find solutions, roots, and intercepts.	Algebra
	3A	SPI 0806.3.7	Identify, compare and contrast functions as linear or nonlinear.	Algebra
	3B	SPI 0806.4.4	Convert between and within the U.S. Customary System and the metric system.	Geometry and Measurement
	3B	SPI 0806.3.1	Find solutions to systems of two linear equations in two variables.	Algebra
	3B	SPI 0806.3.3	Solve and graph linear inequalities in two variables.	Algebra
	4A/4B	SPI 3102.1.1	Interpret patterns found in sequences, tables, and other forms of quantitative information using variables or function notation.	Mathematical Processes
	4A/4B	SPI 3102.1.3	Apply properties to evaluate expressions, simplify expressions, and justify solutions to problems.	Mathematical Processes
	4A/4B	SPI 3102.2.2	Multiply, divide, and square numbers expressed in scientific notation.	Number and Operations
	4A/4B	SPI 3102.2.3	Describe and/or order a given set of real numbers including both rational and irrational numbers.	Number and Operations