

7th Grade Mathematics Pacing Guide (by quarter)

Date Completed	Pacing	SPI	State Performance Indicator	Standard Category
			7th Grade Math Curriculum Pacing Guide Effective August 2009	
	6th grade/1A	SPI 0706.2.1	Simplify numerical expressions involving rational numbers.	Number and Operations
	6th grade/1A	SPI 0706.2.2	Compare rational numbers using appropriate inequality symbols.	Number and Operations
	6th grade/1A	SPI 0706.2.3	Use rational numbers and roots of perfect squares/cubes to solve contextual problems.	Number and Operations
	6th grade/1A	SPI 0706.2.4	Determine the approximate location of square/cube roots on a number line.	Number and Operations
	1A	SPI 0706.1.1	Use proportional reasoning to solve mixture/concentration problems.	Mathematical Processes
	1B	SPI 0706.1.4	Use scales to read maps.	Mathematical Processes
	1B	SPI 0706.2.6	Express the ratio between two quantities as a percent, and a percent as a ratio or fraction.	Number and Operations
	1B	SPI 0706.2.7	Use ratios and proportions to solve problems.	Number and Operations
	1B	SPI 0706.2.5	Solve contextual problems that involve operations with integers.	Number and Operations
	1B	SPI 0706.3.1	Evaluate algebraic expressions involving rational values for coefficients and/or variables.	Algebra
	2A	SPI 0706.3.5	Represent proportional relationships with equations, tables and graphs.	Algebra
	2A	SPI 0706.1.3	Recognize whether information given in a table, graph, or formula suggests a directly proportional, linear, inversely proportional, or other nonlinear relationship.	Mathematical Processes
	2A	SPI 0706.3.4	Interpret the slope of a line as a unit rate given the graph of a proportional relationship.	Algebra
	2A	SPI 0706.3.6	Solve linear equations with rational coefficients symbolically or graphically.	Algebra

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	2A	SPI 0706.3.7	Translate between verbal and symbolic representations of real-world phenomena involving linear equations.	Algebra
	2A	SPI 0706.3.8	Solve contextual problems involving two-step linear equations.	Algebra
	2B	SPI 0706.1.2	Generalize a variety of patterns to a symbolic rule from tables, graphs, or words.	Mathematical Processes
	2B	SPI 0706.3.2	Determine whether a relation (represented in various ways) is a function.	Algebra
	2B	SPI 0706.3.3	Given a table of inputs x and outputs $f(x)$, identify the function rule and continue the pattern.	Algebra
	2B	SPI 0706.3.9	Solve linear inequalities in one variable with rational coefficients symbolically or graphically.	Algebra
	3A	SPI 0706.5.1	Interpret and employ various graphs and charts to represent data.	Data Analysis, Statistics, and Probability
	3A	SPI 0706.5.2	Select suitable graph types (such as bar graphs, histograms, line graphs, circle graphs, box-and-whisker plots, and stem-and-leaf plots) and use them to create accurate representations of given data.	Data Analysis, Statistics, and Probability
	3A	SPI 0706.5.3	Calculate and interpret the mean, median, upper-quartile, lower-quartile, and interquartile range of a set of data.	Data Analysis, Statistics, and Probability
	3B	SPI 0706.5.4	Use theoretical probability to make predictions.	Data Analysis, Statistics, and Probability
	3B	SPI 0706.4.1	Solve contextual problems involving similar triangles.	Geometry and Measurement
	3B	SPI 0706.4.2	Use SSS, SAS, and AA to determine if two triangles are similar.	Geometry and Measurement
	3B	SPI 0706.4.3	Apply scale factor to solve problems involving area and volume.	Geometry and Measurement
	4A/4B 8th Grade	SPI 0806.2.1	Order and compare rational and irrational numbers and locate them on the number line.	Number and Operations
	4A/4B 8th Grade	SPI 0806.2.2	Identify numbers and square roots as rational or irrational.	Number and Operations

