

Algebra (Middle School) Pacing Guide (by quarter)

Revised 8-18-08

		Middle School - Algebra I Curriculum Pacing Guide Effective August 2009	
	1A	SPI 3102.1.1	Interpret patterns found in sequences, tables, and other forms of quantitative information using variables or function notation. Mathematical Processes
	1A	SPI 3102.1.3	Apply properties to evaluate expressions, simplify expressions, and justify solutions to problems. Mathematical Processes
	1A	SPI 3102.2.2	Multiply, divide, and square numbers expressed in scientific notation. Number and Operations
	1A	SPI 3102.2.3	Describe and/or order a given set of real numbers including both rational and irrational numbers. Number and Operations
	1B	SPI 3102.1.5	Recognize and express the effect of changing constants and/or coefficients in problem solving. Mathematical Processes
	1B	SPI 3102.3.1	Express a generalization of a pattern in various representations including algebraic and function notation. Algebra
	1B	SPI 3102.3.6	Interpret various relations in multiple representations. Algebra
	1B	SPI 3102.4.1	Develop and apply strategies to estimate the area of any shape on a plane grid. Geometry and Measurement
	1B	SPI 3102.4.2	Solve contextual problems using the Pythagorean Theorem. Geometry and Measurement
	1B	SPI 3102.4.4	Convert rates and measurements. Geometry and Measurement
	2A	SPI 3102.1.2	Write an equation symbolically to express a contextual problem. Mathematical Processes
	2A	SPI 3102.3.5	Write and/or solve linear equations, inequalities, and compound inequalities including those containing absolute value. Algebra
	2A and 2B	SPI 3102.3.7	Determine domain and range of a relation, determine whether a relation is a function and/or evaluate a function at a specified rational value. Algebra

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	2B	SPI 3102.1.4	Translate between representations of functions that depict real-world situations.	Mathematical Processes
	2B	SPI 3102.1.6	Determine and interpret slope in multiple contexts in including rate of change in real-world problems.	Mathematical Processes
	2B	SPI 3102.3.8	Determine the equation of a line and/or graph a linear equation.	Algebra
	3A	SPI 3102.5.1	Interpret displays of data to answer questions about the data set(s) (e.g., identify pattern, trends, and/or outliers in a data set).	Data Analysis, Statistics & Probability
	3A	SPI 3102.5.2	Identify the effect on mean, median, mode, and range when values in the data set are changed.	Data Analysis, Statistics & Probability
	3A	SPI 3102.5.3	Using a scatterplot, determine if a linear relationship exists and describe the association between variables.	Data Analysis, Statistics & Probability
	3A	SPI 3102.5.4	Generate the equation of a line that fits linear data and use it to make a prediction.	Data Analysis, Statistics & Probability
	3A	SPI 3102.5.5	Determine theoretical and/or experimental probability of an event and/or its complement including using relative frequency.	Data Analysis, Statistics & Probability
	3B	SPI 3102.3.9	Solve systems of linear equation/inequalities in two variables.	Algebra
	3B	SPI 3102.2.1	Operate (add, subtract, multiply, divide, simplify, powers) with radicals and radical expressions including radicands involving rational numbers and algebraic expressions.	Number and Operations
	3B	SPI 3102.3.2	Operate with polynomials and simplify results.	Algebra
	3B	SPI 3102.3.3	Factor polynomials.	Algebra
	3B	SPI 3102.3.10	Find the solution of a quadratic equation and/or zeros of a quadratic function.	Algebra
	3B	SPI 3102.3.11	Analyze nonlinear graphs including quadratic and exponential functions that model a contextual situation.	Algebra

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	4A	SPI 3102.3.4	Operate with, evaluate, and simplify rational expressions including determining restrictions on the domain of the variables.	Algebra
	4A	SPI 3102.4.3	Solve problems involving the distance between points or midpoint of a segment.	Geometry and Measurement