

Standards Table: Algebra I Mathematics

SPIs: Focus Content	
Mathematical Processes	SPI 3102.1.1 Interpret patterns found in sequences, tables, and other forms of quantitative information using variables or function notation.
	SPI 3102.1.2 Write an equation symbolically to express a contextual problem.
	SPI 3102.1.3 Apply properties to evaluate expressions, simplify expressions, and justify solutions to problems.
	SPI 3102.1.6 Determine and interpret slope in multiple contexts including rate of change in real-world problems.
Algebra	SPI 3102.3.1 Express a generalization of a pattern in various representations including algebraic and function notation.
	SPI 3102.3.4 Operate with, evaluate, and simplify rational expressions including determining restrictions on the domain of the variables.
	SPI 3102.3.5 Write and/or solve linear equations, inequalities, and compound inequalities including those containing absolute value.
	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.
	SPI 3102.3.8 Determine the equation of a line and/or graph a linear equation.
	SPI 3102.3.9 Solve systems of linear equation/inequalities in two variables.
	SPI 3102.3.11 Analyze nonlinear graphs including quadratic and exponential functions that model a contextual situation.
Data Analysis, Statistics and Probability	SPI 3102.5.4 Generate the equation of a line that fits linear data and use it to make a prediction.
SPIs: Other Content	
Mathematical Processes	SPI 3102.1.4 Translate between representations of functions that depict real-world situations.
Number and Operations	SPI 3102.2.1 Operate (add, subtract, multiply, divide, simplify, powers) with radicals and radical expressions including radicands involving rational numbers and algebraic expressions.

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	SPI 3102.2.2 Multiply, divide, and square numbers expressed in scientific notation.
	SPI 3102.2.3 Describe and/or order a given set of real numbers including both rational and irrational numbers.
Algebra	SPI 3102.3.2 Operate with polynomials and simplify results.
	SPI 3102.3.3 Factor polynomials.
	SPI 3102.3.6 Interpret various relations in multiple representations.
	SPI 3102.3.10 Find the solution of a quadratic equation and/or zeros of a quadratic function.
Geometry and Measurement	SPI 3102.4.2 Solve contextual problems using the Pythagorean Theorem.
	SPI 3102.4.3 Solve problems involving the distance between points or midpoint of a segment.
	SPI 3102.4.4 Convert rates and measurements.
Data Analysis, Statistics and Probability	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).
	SPI 3102.5.3 Using a scatter-plot, determine if a linear relationship exists and describe the association between variables.
	SPI 3102.5.5 Determine theoretical and/or experimental probability of an event and/or its complement including using relative frequency.
Dropped SPIs: These SPIs will not appear on the 2013-14 TCAP End of Course Exams	
Mathematical Processes	SPI 3102.1.5 Recognize and express the effect of changing constants and/or coefficients in problem solving.
Geometry and Measurement	SPI 3102.4.1 Develop and apply strategies to estimate the area of any shape on a plane grid.
Data Analysis, Statistics and Probability	SPI 3102.5.2 Identify the effect on mean, median, mode, and range when values in the data set are changed.