



## Algebra I Correlation to Priority Academic Student Skills

	Mathematics Curriculum Framework	I CAN Learn <sup>®</sup> Lesson #	I CAN Learn <sup>®</sup> Lesson Title
<b>Standard 1</b>	<b>Number Sense and Algebraic Operations</b>		
1.1	Equations and Formulas		
	a. Translate word phrases and sentences into expressions and equations and vice versa.	HA1-079	Using a Concrete Model to Simplify Algebraic Expressions
		HA1-095	Translating Word Phrases into Algebraic Expressions
		HA1-104	Translating Word Statements into Equations
	b. Solve literal equations involving several variables for one variable in terms of the others.	HA1-135	Evaluating Formulas
		HA1-175	Solving Literal Equations
		HA1-394	Interchanging Linear Equations Between Standard Form and Slope-Intercept Form
	c. Use the formulas from measurable attributes of geometric models (perimeter, circumference, area and volume), science, and statistics to solve problems within an algebraic context.	HA1-070	Evaluating Formulas for Given Values of the Variables
		HA1-135	Evaluating Formulas
		HA1-305	Solving Polynomial Equations by Factoring
		HA1-310	The Practical Use of Polynomial Equations
		HA1-385	Finding the Slope of a Line from its Graph or from the Coordinates of Two Points
		HA1-555	Computing the Range, Variance, and Standard Deviation of a Set of Data
		HA1-810	Simplifying Expressions Using the Multiplication Properties of Exponents
		HA1-855	Solving Exponential Equations
		HA1-879	Applying Counting Techniques to Permutations and Combinations
		HA1-890	Using Models to Derive Formulas for Two-Dimensional Geometric Figures
		HA1-891	Using Models to Derive Formulas for Three-Dimensional Solids
		HA1-955	Analyzing Linear Functions
	d. Solve two-step and three-step problems using concepts such as rules of exponents, rate, distance, ratio and proportion, and percent.	HA1-060	Evaluating Numerical Expressions Using the Order of Operations
		HA1-065	Evaluating Expressions Containing Exponents
		HA1-104	Translating Word Statements into Equations
		HA1-125	Solving Equations Using More Than One Property
		HA1-135	Evaluating Formulas
		HA1-150	Writing an Equation to Solve Word Problems
		HA1-160	Writing an Equation to Solve Distance, Rate, and Time Problems
		HA1-165	Using Equations to Solve Percent Problems
		HA1-170	Solving Percent of Change Problems
		HA1-235	Applying Scientific Notation
		HA1-360	Expressing Ratios in Simplest Form and Solving Equations Involving Proportions
		HA1-441	Applications of Functions and Relations Involving Distance, Rate, and Time
		HA1-810	Simplifying Expressions Using the Multiplication Properties of Exponents

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		HA1-815	Simplifying Expressions with Negative and Zero Exponents
		HA1-818	Simplifying Expressions Using the Division Properties of Exponents
1.2	Expressions		
	a. Simplify and evaluate linear, absolute value, rational and radical expressions.	HA1-005	Evaluating Algebraic Expressions
		HA1-030	Using Opposites and Absolute Values
		HA1-060	Evaluating Numerical Expressions Using the Order of Operations
		HA1-065	Evaluating Expressions Containing Exponents
		HA1-070	Evaluating Formulas for Given Values of the Variables
		HA1-076	Basic Distributive Property
		HA1-080	Simplifying and Evaluating Algebraic Expressions Containing Grouping Symbols
		HA1-085	Simplifying Expressions Using the Properties of Real Numbers
		HA1-090	Simplifying Expressions Using the Property of -1
		HA1-210	Solving Equations Involving Absolute Value
		HA1-225	Dividing Monomials and Simplifying Expressions Having an Exponent of Zero
		HA1-320	Simplifying Rational Expressions
		HA1-480	Finding the Square Roots of Rational Numbers
		HA1-490	Simplifying Square Roots
		HA1-492	Simplifying Square and Cube Roots
		HA1-495	Simplifying Sums and Differences of Radicals
		HA1-500	Simplifying Products of Radicals
		HA1-505	Simplifying Quotients of Radicals
	b. Simplify polynomials by adding, subtracting or multiplying.	HA1-220	Identifying and Multiplying Monomials
		HA1-230	Raising a Monomial or Quotient of Monomials to a Power
		HA1-240	Identifying the Degree of Polynomials and Simplifying by Combining Like Terms
		HA1-245	Adding and Subtracting Polynomials
		HA1-255	Multiplying Two Binomials Using the FOIL Method
		HA1-260	Squaring a Binomial and Finding the Product of a Sum and Difference
		HA1-920	Simplifying Algebraic Expressions Using the Distributive Property
	c. Factor polynomial expressions.	HA1-270	Factoring the Greatest Common Monomial Factor from a Polynomial
		HA1-271	Factoring Trinomials and the Differences of Squares Using Algebra Tiles
		HA1-275	Factoring the Difference Between Two Squares and Perfect Trinomial Squares
		HA1-276	Factoring Sums and Differences of Cubes
		HA1-280	Factoring $x^2 + bx + c$ When $c$ is Greater Than Zero
		HA1-285	Factoring $x^2 + bx + c$ When $c$ is Less Than Zero
		HA1-290	Factoring $ax^2 + bx + c$
		HA1-291	Factoring Quadratic Equations Using the Graphing Calculator
		HA1-295	Factoring by Removing a Common Factor and Grouping
		HA1-300	Factoring a Polynomial Completely
		HA1-305	Solving Polynomial Equations by Factoring
		HA1-862	Dividing Polynomials Using Factoring
<b>Standard 2</b>	<b>Relations and Functions</b>		
2.1	Relations and Functions		
	a. Distinguish between linear and nonlinear data.	HA1-442	Interpreting Graphs of Functions in Real-Life Situations
		HA1-892	Data Analysis Using the Graphing Calculator
		HA1-955	Analyzing Linear Functions
		HA1-965	Determining the Best-Fitting Line
		MPA-150	Identifying and Graphing Linear and Nonlinear Functions
	b. Distinguish between relations and functions.	HA1-436	Identifying Relations

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		HA1-437	Identifying Relations as Functions
	c. Identify dependent and independent variables, domain and range.	HA1-210	Solving Equations Involving Absolute Value
		HA1-402	Translating Among Multiple Representations of Functions
		HA1-437	Identifying Relations as Functions
		HA1-438	Finding the Domain and Range of Functions
		HA1-439	Using Function Notation
		HA1-867	Identifying Domain and Range of Relations Given Graphs, Tables, or Sets of Ordered Pairs
	d. Evaluate a function using tables, equations or graphs.	HA1-375	Identifying Solutions of Equations in Two Variables
		HA1-380	Graphing Linear Equations
		HA1-402	Translating Among Multiple Representations of Functions
		HA1-439	Using Function Notation
2.2	Linear Equations and Graphs		
	a. Solve linear equations by graphing or using properties of equality.	HA1-115	Using the Addition and Subtraction Properties for Equations
		HA1-120	Using the Multiplication and Division Properties for Equations
		HA1-124	Using a Concrete Model to Solve One- and Two-Step Equations
		HA1-125	Solving Equations Using More Than One Property
		HA1-140	Solving Equations by Combining Like Terms
		HA1-144	Using a Concrete Model to Solve Equations with Variables on Both Sides
		HA1-145	Solving Equations with Variables on Both Sides
		HA1-150	Writing an Equation to Solve Word Problems
		HA1-155	Writing an Equation to Solve Consecutive Integer Problems
		HA1-160	Writing an Equation to Solve Distance, Rate, and Time Problems
		HA1-165	Using Equations to Solve Percent Problems
		HA1-170	Solving Percent of Change Problems
		HA1-362	Solving Work Problems
		HA1-380	Graphing Linear Equations
		HA1-382	Solving Linear Equations Using the Graphing Calculator
	b. Recognize the parent graph of the functions $y = k$ , $y = x$ , $y =  x $ , and predict the effects of transformations on the parent graph.	HA1-380	Graphing Linear Equations
		HA1-401	How Variations of "m" and "b" Affect the Graph of $y = mx + b$
		HA1-950	Graphing Absolute Value Functions
		HA1-955	Analyzing Linear Functions
	c. Slope		
	I. Calculate the slope of a line using a graph, an equation, two points or a set of data points.	HA1-175	Solving Literal Equations (Problem Set of the Day)
		HA1-380	Graphing Linear Equations
		HA1-382	Solving Linear Equations Using the Graphing Calculator
		HA1-385	Finding the Slope of a Line from its Graph or from the Coordinates of Two Points
		HA1-398	Graphing Linear Equations Using Slope and y-Intercept or Slope and a Point
		HA1-402	Translating Among Multiple Representations of Functions
		HA1-877	Drawing Inferences and Making Predictions from Tables and Graphs
		HA1-955	Analyzing Linear Functions
		MPA-135	Determining the Slope of a Line
	II. Use the slope to differentiate between lines that are parallel, perpendicular, horizontal, or vertical.	HA1-395	Finding the Equation of a Line Parallel or Perpendicular to a Given Line
		HA1-866	Drawing a Line Using Slope-Intercept Form and Determining if Two Lines are Parallel or Perpendicular
		HA1-955	Analyzing Linear Functions
		HGM-090	Examining Slopes of Parallel and Perpendicular Lines
		MPA-140	Examining Linear Equations in Slope-Intercept Form

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	III. Interpret the slope and intercepts within the context of everyday life (e.g., telephone charges based on base rate [y-intercept] plus rate per minute [slope]).	HA1-385	Finding the Slope of a Line from its Graph or from the Coordinates of Two Points
		HA1-402	Translating Among Multiple Representations of Functions
		HA1-405	Determining an Equation of a Line Given the Slope and Coordinates of One Point
		HA1-441	Applications of Functions and Relations Involving Distance, Rate, and Time
		HA1-442	Interpreting Graphs of Functions in Real-Life Situations
		HA1-450	Solving Problems Involving Direct Variation
		HA1-955	Analyzing Linear Functions
		HA1-960	Real-World Applications of Linear Functions
	d. Develop the equation of a line and graph linear relationships given the following: slope and y-intercept, slope and one point on the line, two points on the line, x-intercept and y-intercept, a set of data points.	HA1-398	Graphing Linear Equations Using Slope and y-Intercept or Slope and a Point
		HA1-405	Determining an Equation of a Line Given the Slope and Coordinates of One Point
		HA1-410	Determining an Equation of a Line Given the Coordinates of Two Points
		HA1-892	Data Analysis Using the Graphing Calculator
	e. Match equations to a graph, table, or situation and vice versa.	HA1-402	Translating Among Multiple Representations of Functions
		HA1-442	Interpreting Graphs of Functions in Real-Life Situations
2.3	Linear Inequalities and Graphs		
	a. Solve linear inequalities by graphing or using properties of inequalities.	HA1-105	Translating Word Statements into Inequalities
		HA1-180	Graphing Equations and Inequalities on the Number Line
		HA1-185	Solving Inequalities Using the Addition and Subtraction Properties
		HA1-190	Solving Inequalities Using the Multiplication and Division Properties
		HA1-195	Solving Inequalities Using More Than One Property
		HA1-415	Graphing Linear Inequalities with Two Variables
		HA1-416	Graphing Linear Inequalities with Two Variables Using the Graphing Calculator
	b. Match inequalities (with 1 or 2 variables) to a graph, table, or situation and vice versa.	HA1-105	Translating Word Statements into Inequalities
		HA1-180	Graphing Equations and Inequalities on the Number Line
		HA1-185	Solving Inequalities Using the Addition and Subtraction Properties
		HA1-190	Solving Inequalities Using the Multiplication and Division Properties
		HA1-195	Solving Inequalities Using More Than One Property
		HA1-415	Graphing Linear Inequalities with Two Variables
		HA1-416	Graphing Linear Inequalities with Two Variables Using the Graphing Calculator
2.4	Solve a system of linear equations by graphing, substitution or elimination.	HA1-455	Solving Systems of Linear Equations by Graphing
		HA1-460	Solving Systems of Linear Equations by the Substitution Method
		HA1-465	Solving Systems of Linear Equations by the Addition/Subtraction Method
		HA1-470	Solving Systems of Linear Equations by the Multiply/Add/Subtract Method
		HA1-805	Applying Algebra Concepts
		HA1-806	Solving Systems of Linear Equations Using the Graphing Calculator
2.5*	Nonlinear Functions		
	a. Match exponential and quadratic functions to a table, graph or situation and vice versa.	HA1-437	Identifying Relations as Functions
		HA1-820	Graphing Exponential Functions
		HA1-927	Graphing $f(x) = ax^2$ Using Dilations
		HA1-928	Graphing $f(x) = ax^2$ Using Dilations and Reflections
		HA1-929	Graphing $f(x) = ax^2 + c$ Using Dilations, Reflections, and Vertical Translations
		HA1-930	Graphing Quadratic Functions with Horizontal and Vertical Shifting
		HA1-931	Graphing Quadratic Functions with Dilations, Reflections, and Transformations
		HA1-935	Analyzing Graphs of Quadratic Functions

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		HA1-945	Real-World Applications of Quadratic Functions
	b. Solve quadratic equations by graphing, factoring, or using the quadratic formula.	HA1-305	Solving Polynomial Equations by Factoring
		HA1-525	Solving Quadratic Equations Involving Perfect Square Expressions
		HA1-530	Solving Quadratic Equations by Completing the Square
		HA1-535	Developing the Quadratic Formula and Using it to Solve Quadratic Equations
		HA1-536	Solving Quadratic Equations Using the Graphing Calculator
<b>Standard 3</b>	<b>Data Analysis, Probability and Statistics</b>		
3.1	Data Analysis		
	a. Translate from one representation of data to another and understand that the data can be represented using a variety of tables, graphs, or symbols and that different modes of representation often convey different messages.	HA1-545	Making a Frequency Distribution Table
		HA1-885	Histograms and the Normal Distribution
		MPA-840	Interpreting Data
	b. Make valid inferences, predictions, and/or arguments based on data from graphs, tables, and charts.	HA1-877	Drawing Inferences and Making Predictions from Tables and Graphs
		MPA-099	Recognizing Misleading Statistics and Graphs
	c. Solve two-step and three-step problems using concepts such as probability and measures of central tendency.	HA1-235	Applying Scientific Notation
		HA1-540	Finding the Mean, Median, and Mode from Data and Frequency Distribution Tables
		HA1-541	Analyzing Data Using the Measures of Central Tendency and the Range
		HA1-560	Determining Probability of an Event and Complementary Event from a Random Experiment
		HA1-565	Solving Problems Involving Independent, Dependent, and Mutually Exclusive and Inclusive Events
3.2	Collect data involving two variables and display on a scatter plot; interpret results using a linear model/equation and identify whether the model/equation is a line best fit for the data.	HA1-965	Determining the Best-Fitting Line
		MPA-132	Interpreting and Creating Scatterplots
<b>Process Standard 1</b>	<b>Problem Solving</b>		
PS 1.1	Apply a wide variety of problem-solving strategies (identify a pattern, use equivalent representations) to solve problems from within and outside mathematics.	HA1-080	Simplifying and Evaluating Algebraic Expressions Containing Grouping Symbols
		HA1-104	Translating Word Statements into Equations
		HA1-105	Translating Word Statements into Inequalities
		HA1-135	Evaluating Formulas
		HA1-155	Writing an Equation to Solve Consecutive Integer Problems
		HA1-160	Writing an Equation to Solve Distance, Rate, and Time Problems
		HA1-165	Using Equations to Solve Percent Problems
		HA1-170	Solving Percent of Change Problems
		HA1-175	Solving Literal Equations
		HA1-270	Factoring the Greatest Common Monomial Factor from a Polynomial
		HA1-271	Factoring Trinomials and the Differences of Squares Using Algebra Tiles
		HA1-275	Factoring the Difference Between Two Squares and Perfect Trinomial Squares
		HA1-276	Factoring Sums and Differences of Cubes
		HA1-280	Factoring $x^2 + bx + c$ When $c$ is Greater Than Zero
		HA1-285	Factoring $x^2 + bx + c$ When $c$ is Less Than Zero
		HA1-290	Factoring $ax^2 + bx + c$
		HA1-291	Factoring Quadratic Equations Using the Graphing Calculator
		HA1-295	Factoring by Removing a Common Factor and Grouping

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		HA1-300	Factoring a Polynomial Completely
		HA1-362	Solving Work Problems
		HA1-380	Graphing Linear Equations
		HA1-394	Interchanging Linear Equations Between Standard Form and Slope-Intercept Form
		HA1-437	Identifying Relations as Functions
		HA1-438	Finding the Domain and Range of Functions
		HA1-447	Identifying Number Patterns
		HA1-448	Finding the nth Term of a Pattern
		HA1-480	Finding the Square Roots of Rational Numbers
		HA1-890	Using Models to Derive Formulas for Two-Dimensional Geometric Figures
		HA1-891	Using Models to Derive Formulas for Three-Dimensional Solids
PS 1.2	Identify the problem from a described situation, determine the necessary data and apply appropriate problem-solving strategies.	HA1-030	Using Opposites and Absolute Values
		HA1-076	Basic Distributive Property
		HA1-076	Basic Distributive Property
		HA1-104	Translating Word Statements into Equations
		HA1-135	Evaluating Formulas
		HA1-140	Solving Equations by Combining Like Terms
		HA1-144	Using a Concrete Model to Solve Equations with Variables on Both Sides
		HA1-145	Solving Equations with Variables on Both Sides
		HA1-150	Writing an Equation to Solve Word Problems
		HA1-155	Writing an Equation to Solve Consecutive Integer Problems
		HA1-160	Writing an Equation to Solve Distance, Rate, and Time Problems
		HA1-165	Using Equations to Solve Percent Problems
		HA1-170	Solving Percent of Change Problems
		HA1-185	Solving Inequalities Using the Addition and Subtraction Properties
		HA1-190	Solving Inequalities Using the Multiplication and Division Properties
		HA1-195	Solving Inequalities Using More Than One Property
		HA1-362	Solving Work Problems
		HA1-375	Identifying Solutions of Equations in Two Variables
		HA1-447	Identifying Number Patterns
		HA1-805	Applying Algebra Concepts
<b>Process Standard 2</b>	<b>Communication</b>		
PS 2.1	Use mathematical language and symbols to read and write mathematics and to converse with others.	Throughout	Standard is found throughout program. For examples see:
		HA1-076	Basic Distributive Property
		HA1-095	Translating Word Phrases into Algebraic Expressions
		HA1-104	Translating Word Statements into Equations
		HA1-105	Translating Word Statements into Inequalities
		HA1-124	Using a Concrete Model to Solve One- and Two-Step Equations
		HA1-180	Graphing Equations and Inequalities on the Number Line
		HA1-362	Solving Work Problems
		HA1-375	Identifying Solutions of Equations in Two Variables
		HA1-810	Simplifying Expressions Using the Multiplication Properties of Exponents
		HA1-815	Simplifying Expressions with Negative and Zero Exponents
		HA1-818	Simplifying Expressions Using the Division Properties of Exponents
PS 2.2	Demonstrate mathematical ideas orally and in writing.	Throughout	Standard is found throughout program. For examples see:
		HA1-030	Using Opposites and Absolute Values

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		HA1-035	Adding Real Numbers Using a Number Line
		HA1-070	Evaluating Formulas for Given Values of the Variables
		HA1-075	Simplifying Algebraic Expressions by Combining Like Terms
		HA1-076	Basic Distributive Property
		HA1-095	Translating Word Phrases into Algebraic Expressions
		HA1-104	Translating Word Statements into Equations
		HA1-140	Solving Equations by Combining Like Terms
		HA1-144	Using a Concrete Model to Solve Equations with Variables on Both Sides
		HA1-145	Solving Equations with Variables on Both Sides
		HA1-150	Writing an Equation to Solve Word Problems
		HA1-155	Writing an Equation to Solve Consecutive Integer Problems
		HA1-160	Writing an Equation to Solve Distance, Rate, and Time Problems
		HA1-165	Using Equations to Solve Percent Problems
		HA1-185	Solving Inequalities Using the Addition and Subtraction Properties
		HA1-190	Solving Inequalities Using the Multiplication and Division Properties
		HA1-245	Adding and Subtracting Polynomials
		HA1-255	Multiplying Two Binomials Using the FOIL Method
		HA1-285	Factoring $x^2 + bx + c$ When $c$ is Less Than Zero
		HA1-340	Adding and Subtracting Rational Expressions
		HA1-398	Graphing Linear Equations Using Slope and y-Intercept or Slope and a Point
PS 2.3	Analyze mathematical definitions and discover generalizations through investigations.	HA1-436	Identifying Relations
		HA1-437	Identifying Relations as Functions
		HA1-448	Finding the $n$ th Term of a Pattern
		HA1-450	Solving Problems Involving Direct Variation
		HA1-480	Finding the Square Roots of Rational Numbers
		HA1-892	Data Analysis Using the Graphing Calculator
		HA1-927	Graphing $f(x) = ax^2$ Using Dilations
		HA1-928	Graphing $f(x) = ax^2$ Using Dilations and Reflections
		HA1-929	Graphing $f(x) = ax^2 + c$ Using Dilations, Reflections, and Vertical Translations
		HA1-935	Analyzing Graphs of Quadratic Functions
		HA1-950	Graphing Absolute Value Functions
		HA1-955	Analyzing Linear Functions
		HA1-965	Determining the Best-Fitting Line
<b>Process Standard 3</b>	<b>Reasoning</b>		
PS 3.1	Use various types of logical reasoning in mathematical contexts and real-world situations.	HA1-380	Graphing Linear Equations
		HA1-382	Solving Linear Equations Using the Graphing Calculator
		HA1-385	Finding the Slope of a Line from its Graph or from the Coordinates of Two Points
		HA1-436	Identifying Relations
		HA1-437	Identifying Relations as Functions
		HA1-441	Applications of Functions and Relations Involving Distance, Rate, and Time
		HA1-442	Interpreting Graphs of Functions in Real-Life Situations
		HA1-447	Identifying Number Patterns
		HA1-460	Solving Systems of Linear Equations by the Substitution Method
		HA1-470	Solving Systems of Linear Equations by the Multiply/Add/Subtract Method
		HA1-485	Writing Rational Numbers as Decimals or Fractions
		HA1-935	Analyzing Graphs of Quadratic Functions

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		HA1-945	Real-World Applications of Quadratic Functions
		HA1-965	Determining the Best-Fitting Line
		MPA-142	Solving Problems With Linear Functions and Direct Variation
PS 3.2	Prepare and evaluate suppositions and arguments.	HA1-401	How Variations of "m" and "b" Affect the Graph of $y = mx + b$
		HA1-449	Applying Inductive and Deductive Reasoning
		HA1-480	Finding the Square Roots of Rational Numbers
		HA1-560	Determining Probability of an Event and Complementary Event from a Random Experiment
		HA1-929	Graphing $f(x) = ax^2 + c$ Using Dilations, Reflections, and Vertical Translations
		HA1-955	Analyzing Linear Functions
PS 3.3	Verify conclusions, identify counterexamples, test conjectures, and justify solutions to mathematical problems.	Throughout	Standard is found throughout program. For examples see:
		HA1-115	Using the Addition and Subtraction Properties for Equations
		HA1-120	Using the Multiplication and Division Properties for Equations
		HA1-140	Solving Equations by Combining Like Terms
		HA1-144	Using a Concrete Model to Solve Equations with Variables on Both Sides
		HA1-145	Solving Equations with Variables on Both Sides
		HA1-150	Writing an Equation to Solve Word Problems
		HA1-155	Writing an Equation to Solve Consecutive Integer Problems
		HA1-160	Writing an Equation to Solve Distance, Rate, and Time Problems
		HA1-165	Using Equations to Solve Percent Problems
		HA1-185	Solving Inequalities Using the Addition and Subtraction Properties
		HA1-190	Solving Inequalities Using the Multiplication and Division Properties
		HA1-195	Solving Inequalities Using More Than One Property
		HA1-405	Determining an Equation of a Line Given the Slope and Coordinates of One Point
		HA1-480	Finding the Square Roots of Rational Numbers
PS 3.4	Justify mathematical statements through proofs.	HA1-395	Finding the Equation of a Line Parallel or Perpendicular to a Given Line
		HA1-480	Finding the Square Roots of Rational Numbers
		HA1-800	Solving Equations
		HA1-881	Completing and Validating Algebraic Proofs
		HGM-035	Using Deductive Reasoning: Algebraic Proof
<b>Process Standard 4</b>	<b>Connections</b>		
PS 4.1	Link mathematical ideas to the real world (e.g., statistics helps qualify the confidence we can have when drawing conclusions based on a sample).	HA1-035	Adding Real Numbers Using a Number Line
		HA1-095	Translating Word Phrases into Algebraic Expressions
		HA1-362	Solving Work Problems
		HA1-441	Applications of Functions and Relations Involving Distance, Rate, and Time
		HA1-442	Interpreting Graphs of Functions in Real-Life Situations
		HA1-450	Solving Problems Involving Direct Variation
		HA1-540	Finding the Mean, Median, and Mode from Data and Frequency Distribution Tables
		HA1-541	Analyzing Data Using the Measures of Central Tendency and the Range
		HA1-805	Applying Algebra Concepts
		HA1-887	Applications of Absolute Value, Step, and Constant Functions
		HA1-945	Real-World Applications of Quadratic Functions
		HA1-960	Real-World Applications of Linear Functions
		HA1-965	Determining the Best-Fitting Line
PS 4.2	Apply mathematical problem-solving skills to other disciplines.	Throughout	Standard is found throughout program. For examples see:
		HA1-402	Translating Among Multiple Representations of Functions
		HA1-410	Determining an Equation of a Line Given the Coordinates of Two Points

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		HA1-439	Using Function Notation
		HA1-460	Solving Systems of Linear Equations by the Substitution Method
		HA1-890	Using Models to Derive Formulas for Two-Dimensional Geometric Figures
		HA1-891	Using Models to Derive Formulas for Three-Dimensional Solids
PS 4.3	Use mathematics to solve problems encountered in daily life.	Throughout	Standard is found throughout program. For examples see:
		HA1-398	Graphing Linear Equations Using Slope and y-Intercept or Slope and a Point
		HA1-442	Interpreting Graphs of Functions in Real-Life Situations
		HA1-460	Solving Systems of Linear Equations by the Substitution Method
		HA1-470	Solving Systems of Linear Equations by the Multiply/Add/Subtract Method
		HA1-960	Real-World Applications of Linear Functions
PS 4.4	Relate one area of mathematics to another and to the integrated whole (e.g., connect equivalent representations to corresponding problem situations or mathematical concepts).	HA1-245	Adding and Subtracting Polynomials
		HA1-255	Multiplying Two Binomials Using the FOIL Method
		HA1-375	Identifying Solutions of Equations in Two Variables
		HA1-801	Solving Inequalities
		HA1-890	Using Models to Derive Formulas for Two-Dimensional Geometric Figures
		HA1-920	Simplifying Algebraic Expressions Using the Distributive Property
<b>Process Standard 5</b>	<b>Representation</b>		
PS 5.1	Use algebraic, graphic, and numeric representations to model and interpret mathematical and real world situations.	Throughout	Standard is found throughout program. For examples see:
		HA1-520	Finding the Distance Between Two Points on a Coordinate Plane
		HA1-560	Determining Probability of an Event and Complementary Event from a Random Experiment
		HA1-565	Solving Problems Involving Independent, Dependent, and Mutually Exclusive and Inclusive Events
PS 5.2	Use a variety of mathematical representations as tools for organizing, recording, and communicating mathematical ideas (e.g., mathematical models, tables, graphs, spreadsheets).	Throughout	Standard is found throughout program. For examples see:
		HA1-079	Using a Concrete Model to Simplify Algebraic Expressions
		HA1-124	Using a Concrete Model to Solve One- and Two-Step Equations
		HA1-125	Solving Equations Using More Than One Property
		HA1-144	Using a Concrete Model to Solve Equations with Variables on Both Sides
		HA1-160	Writing an Equation to Solve Distance, Rate, and Time Problems
		HA1-271	Factoring Trinomials and the Differences of Squares Using Algebra Tiles
		HA1-291	Factoring Quadratic Equations Using the Graphing Calculator
		HA1-362	Solving Work Problems
		HA1-382	Solving Linear Equations Using the Graphing Calculator
		HA1-402	Translating Among Multiple Representations of Functions
		HA1-442	Interpreting Graphs of Functions in Real-Life Situations
		HA1-447	Identifying Number Patterns
		HA1-448	Finding the nth Term of a Pattern
PS 5.3	Develop a variety of mathematical representations that can be used flexibly and appropriately.	Throughout	Standard is found throughout program. For examples see:
		HA1-079	Using a Concrete Model to Simplify Algebraic Expressions
		HA1-124	Using a Concrete Model to Solve One- and Two-Step Equations
		HA1-144	Using a Concrete Model to Solve Equations with Variables on Both Sides
		HA1-160	Writing an Equation to Solve Distance, Rate, and Time Problems
		HA1-271	Factoring Trinomials and the Differences of Squares Using Algebra Tiles
		HA1-291	Factoring Quadratic Equations Using the Graphing Calculator

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MM1 - Fundamentals of Mathematics

MPA - Pre-Algebra

HA1-Algebra 1

Note: Standards were taken from the Oklahoma Algebra I Priority Academic Student Skills for Mathematics document adopted by the Oklahoma State Board of Education and updated in August 2006.