Prep for Algebra I	Scope and Sequence
Unit Lesson	**Objectives**
Diagnostic PreTest	
TEST	
Linear Functions	
Graphing on the Coordinate Plane	
	Identify and graph points in the coordinate plane, describing their relationship to axes and quadrants.
	Create graphs from a table or situation and use them to solve problems.
Tables, Graphs, and Equations	
	Translate tables and graphs into equations.
	Generate different representations of the same two-variable data.
	Recognize that tabular and graphical representations may be partial representations.
Constructing Linear Functions	
	Analyze linear functions to find the rate of change and initial value.
	Interpret the rate of change and initial value of a linear function in terms of the situation it models.
Exploring Slope	
	Recognize the difference between positive slope, negative slope, no slope, and zero slope.
	Determine the value of the slope of a line from a table or a graph.
Slope-Intercept Form	
	Analyze a graph to determine slope and y-intercept.
	Graph a linear function using the slope and y-intercept.
	Write a linear equation in slope-intercept form given the slope and y-intercept.
Standard Form	
	Analyze a linear graph to determine the intercepts.

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	Write linear equations in standard form to model real-world scenarios.
	Use standard form to identify and graph components of a linear function.
Applying Linear Functions	
	Determine what the slope and y-intercept are and what they represent in real-world functional relationships.
	Use real-world scenarios of linear functions to write an equation in slope-intercept form.
	Evaluate inputs and outputs for linear equations in slope-intercept form.
Linear Equations	
Simplifying Algebraic Expressions	
	Identify and combine like terms in algebraic expressions.
	Simplify algebraic expressions.
	Write and identify equivalent expressions.
Using the Distributive Property	
	Use the distributive property to simplify expressions.
	Identify and justify distributed expressions.
Combining Like Terms to Solve Equations	
	Identify and combine like terms to solve one-variable linear equations.
	Determine and apply properties of equality when solving an equation.
Solving with the Distributive Property	
	Solve one-variable linear equations using the distributive property.
	Justify the steps taken to solve one-variable linear equations involving the distributive property.
Solving Equations with Rational Numbers	
	Identify the least common denominator of fractions to combine like terms and solve equations.

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	Solve one-variable linear equations with rational numbers using properties of equality.
Equivalent Equations	
	Identify equivalent equations.
	Rewrite equations in an equivalent form.
Systems of Equations	
Using Graphs to Solve Systems	
	Rewrite a system of linear equations in slope-intercept form.
	Graph linear systems on the coordinate plane.
	Determine the solution of a linear system from the graph.
Using Substitution to Solve Systems	
	Use substitution to solve a linear system.
Rewriting Equations to Use Substitution	
	Isolate one variable in a system of linear equations.
	Use substitution to solve a system of linear equations.
	Write and solve a system of linear equations from a real-world scenario.
Using Addition to Solve Systems	
	Use the linear combination method to solve linear systems.
Multiplying One Equation to Solve Systems	
	Solve a system using the linear combination method after multiplying one equation.
	Write equations of a linear system in standard form from a real-world scenario.
Multiplying Two Equations to Solve Systems	
	Multiply two equations to solve systems.

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	Use the linear combination method to solve systems of linear equations after multiplying both equations.
	Write equations of a linear system in standard form from a real-world scenario.
Exponents and Scatterplots	
Zero and Negative Exponents	
	Determine patterns of exponent values from a table.
	Evaluate powers of zero and negative exponents.
	Simplify expressions of zero and negative exponents.
Powers with the Same Base	
	Evaluate powers of the same base through multiplication and division.
	Simplify expressions of powers with the same base.
Raising a Power to a Power	
	Simplify and evaluate expressions of raising a power to a power of integer exponents.
Evaluating Expressions with Exponents	
	Simplify expressions using the rules of exponents.
	Evaluate expressions using substitution of the variables.
Drawing Trend Lines	
	Use a graphing calculator to graph scatterplots and draw the trend line.
	Draw a line of best fit in scatterplots and identify its purpose.
Comparing Data Sets	
	Compare and contrast sets of data.
	Analyze data sets using the trend line.
Diagnostic PostTest	

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TEST	