Reporting Topic 1			
Evaluating Expressions			
Duration		**5 weeks**	**Assessed**
Priority Standard(s)	6.EEI.A.2.b	Create and evaluate expressions involving variables and whole number exponents. Evaluate expressions at specific values of the variables	
	6.EEI.A.2.c	Create and evaluate expressions involving variables and whole number exponents. Evaluate non-negative rational number expressions.	
	A1.IF.A.2	Use function notation to evaluate functions for inputs in their domains, and interpret statements that use function notation in terms of a context.	
Supporting Standard(s)	7.NS.A.1.a	Apply and extend previous understandings of numbers to add and subtract rational numbers. Add and subtract rational numbers.	
	7.NS.A.3	Solve problems involving the four arithmetic operations with rational numbers.	

Reporting Topic 2			
Solving Equations			
Duration		**4 weeks**	**Assessed**
Priority Standard(s)	A1.REI.A.1	Explain how each step taken when solving an equation or inequality in one variable creates an equivalent equation or inequality that has the same solution(s) as the original.	
Supporting Standard(s)	A1.CED.A.4	Solve literal equations and formulas for a specified variable that highlights a quantity of interest.	

Reporting Topic 3			
Solving Inequalities			
Duration		**3 weeks**	**Assessed**
Priority Standard(s)	A1.REI.A.1	Explain how each step taken when solving an equation or inequality in one variable creates an equivalent equation or inequality that has the same solution(s) as the original.	
Supporting Standard(s)	A1.CED.A.4	Solve literal equations and formulas for a specified variable that highlights a quantity of interest.	

Reporting Topic 4			
Solving Absolute Value			
Duration		**4 weeks**	**Assessed**
Priority Standard(s)	A2.REI.A.1	Create and solve equations and inequalities, including those that involve absolute value.	
Supporting Standard(s)	A1.REI.A.1	Explain how each step taken when solving an equation or inequality in one variable creates an equivalent equation or inequality that has the same solution(s) as the original.	

Reporting Topic 5			
Linear Functions			
Duration		**4 weeks**	**Assessed**
Priority Standard(s)	A1.IF.B.5	Determine the average rate of change of a function over a specified interval and interpret the meaning.	
	A1.CED.A.2	Create and graph linear, quadratic and exponential equations in two variables.	
	A1.LQE.A.3	Construct linear, quadratic and exponential equations given graphs, verbal descriptions or tables.	
Supporting Standard(s)	A1.IF.A.1.a	Understand that a function from one set (domain) to another set (range) assigns to each element of the domain exactly one element of the range. Represent a function using function notation.	
	A1.IF.A.1.b	Understand that a function from one set (domain) to another set (range) assigns to each element of the domain exactly one element of the range. Understand that the graph of a function labeled f is the set of all ordered pairs (x, y) that satisfy the equation y=f(x).	
	A1.IF.C.7	Graph functions expressed symbolically, and identify and interpret key features of the graph.	
	A1.IF.B.3	Using tables, graphs and verbal descriptions, interpret key characteristics of a function that models the relationship between two quantities.	

Reporting Topic 6			
Absolute Value Functions			
Duration		**3 weeks**	**Assessed**
Priority Standard(s)	A1.REI.C.7	Graph the solution to a linear inequality in two variables.	
	A2.BF.A.3	Describe the effects of transformations algebraically and graphically; create vertical and horizontal translations, vertical and horizontal reflections and dilations (expansions/compressions) for a variety of functions (linear, quadratic, cubic, square and cube root, absolute value, exponential and logarithmic).	
Supporting Standard(s)	A1.IF.B.4	Relate the domain and range of a function to its graph, and where applicable, to the quantitative relationship it describes.	
	A2.IF.A.1	Identify and interpret key characteristics of functions represented graphically with tables, and with algebraic symbolism to solve problems.	

Reporting Topic 7			
Factoring			
Duration		**3 weeks**	**Assessed**
Priority Standard(s)	A1.SSE.A.2	Analyze the structure of polynomials to create equivalent expressions or equations.	
	A1.APR.A.1	Add, subtract and multiply polynomials, and understand that polynomials follow the same general rules of arithmetic and are closed under these operations.	
Supporting Standard(s)	A1.APR.A.2	Divide polynomials by monomials.	
	A1.NQ.A.1	Explain how the meaning of rational exponents extends from the properties of integer exponents.	

Reporting Topic 8			
Graphing Quadratic Functions			
Duration		**3 weeks**	**Assessed**
Priority Standard(s)	A2.BF.A.3	Describe the effects of transformations algebraically and graphically; create vertical and horizontal translations, vertical and horizontal reflections and dilations (expansions/compressions) for a variety of functions (linear, quadratic, cubic, square and cube root, absolute value, exponential and logarithmic).	
	A1.SSE.A.3.b	Choose and produce equivalent forms of a quadratic expression or equations to reveal and explain properties. Find the maximum or minimum value of a quadratic function by completing the square.	
	A1.CED.A.2	Create and graph linear, quadratic and exponential equations in two variables.	
	A1.LQE.A.3	Construct linear, quadratic and exponential equations given graphs, verbal descriptions or tables.	
Supporting Standard(s)	A1.IF.B.4	Relate the domain and range of a function to its graph, and where applicable, to the quantitative relationship it describes.	
	A1.IF.A.1.a	Understand that a function from one set (domain) to another set (range) assigns to each element of the domain exactly one element of the range. Represent a function using function notation.	
	A1.IF.A.1.b	Understand that a function from one set (domain) to another set (range) assigns to each element of the domain exactly one element of the range. Understand that the graph of a function labeled f is the set of all ordered pairs (x, y) that satisfy the equation y=f(x).	
	A1.IF.C.7	Graph functions expressed symbolically, and identify and interpret key features of the graph.	
	A1.IF.B.3	Using tables, graphs and verbal descriptions, interpret key characteristics of a function that models the relationship between two quantities.	
	A2.IF.A.1	Identify and interpret key characteristics of functions represented graphically with tables, and with algebraic symbolism to solve problems.	

Reporting Topic 9			
Solving Quadratic Equations			
Duration		**3 weeks**	**Assessed**
Priority Standard(s)	A1.SSE.A.3.a	Choose and produce equivalent forms of a quadratic expression or equations to reveal and explain properties. Find the zeros of a quadratic function by rewriting it in factored form.	
	A1.REI.A.2.c	Solve problems involving quadratic equations. Analyze different methods of solving quadratic equations.	
Supporting Standard(s)	A1.REI.A.2.a	Solve problems involving quadratic equations. Use the method of completing the square to create an equivalent quadratic equation.	
	A1.REI.A.2.b	Solve problems involving quadratic equations. Derive the quadratic formula.	
	A2.NQ.A.2	Create and recognize equivalent expressions involving radical and exponential forms of expressions.	