Options EHS Algebra 2A 2020		Scope and Sequence
Unit	**Lesson**	**Objectives**
Introduction to Functions		
	Inequalities	
		Solve one-variable linear inequalities, including compound inequalities, and represent the solution sets graphically and algebraically.
		Create one-variable linear inequalities in one variable and use them to solve problems.
	Relations and Functions	
		Represent a relation in multiple ways, including equations, graphs, words, and tables of values.
		Determine if a relation is a function.
		Determine if the function is one-to-one.
		Determine the domain and range of a relation.
		Evaluate function rules.
	Function Operations	
		Combine functions using arithmetic operations, expressing the results both algebraically and graphically.
		Evaluate sums, differences, products, and quotients of functions.
	Composition of Functions	
		Write an expression for the composition of functions.
		Find the domain of the composition of functions.
		Evaluate the composition of functions.
	Symmetry	
		Determine the symmetry of a relation from a graph.
		Determine the symmetry of a function algebraically.
	Transformations of Functions	

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Unit	**Lesson**	**Objectives**
		Identify a function as belonging to a family of functions.
		Analyze a function rule or graph to determine transformations of the parent function.
	Function Inverses	
		Find the inverse of a function.
		Use composition to verify that functions are inverses.
	Rate of Change	
		Calculate the average rate of change of a function over a specified interval.
		Interpret the average rate of change of a function over a specified interval.
		Solve problems involving direct variation.
	Two-Variable Linear Inequalities	
		Write a linear inequality to model a relationship between two quantities.
		Interpret the solution set of a two-variable linear inequality.
		Graph two-variable linear inequalities.
	Unit Test	
Absolute Value Functions		
	Absolute Value Functions	
		Analyze absolute value functions to determine key features of the graph.
		Model and solve mathematical and real-world problems with absolute value functions.
	Absolute Value Functions and Translations	
		Graph the absolute value function and its translations.
		Analyze key features of the absolute value function and its translations.
	Reflections and Dilations of Absolute Value Functions	

Options EHS Algebra 2A 2020		Scope and Sequence
Unit	**Lesson**	**Objectives**
		Graph reflections and dilations of the absolute value function.
		State the domain and range of reflections and dilations of the absolute value function.
	Solving Absolute Value Equations	
		Solve absolute value equations using tables or algebra, pointing out solutions that are viable or not viable in a modeling context.
		Create absolute value equations to model and solve problems.
	Absolute Value Inequalities	
		Rewrite absolute value inequalities as compound inequalities.
		Solve absolute value inequalities graphically and algebraically.
Quadratics and Complex Numbers		
	Solving Quadratic Equations by Factoring	
		Find real solutions for quadratic equations using the zero product property.
		Use key attributes of a quadratic function to solve word problems.
	Quadratic Inequalities	
		Find real solutions of quadratic inequalities algebraically and graphically.
		Create quadratic inequalities in one variable and use them to solve problems.
	Complex Numbers	
		Represent square roots of negative numbers as multiples of i.
		Represent complex numbers in the form a + bi or in the complex plane.
		Simplify powers of i using their cyclic nature.
		Determine the absolute value of a complex number.
	Operations with Complex Numbers	

Options EHS Algebra 2A 2020		Scope and Sequence
Unit	**Lesson**	**Objectives**
		Identify the field properties of complex numbers.
		Perform addition, subtraction, and multiplication of complex numbers.
	Completing The Square	
		Recognize the pattern of a perfect-square trinomial as the square of a binomial.
		Use the square root property to solve equations.
		Find complex solutions to quadratic equations by completing the square.
	The Quadratic Formula	
		Find real and complex solutions of quadratic equations using the quadratic formula.
		Use the discriminant to determine the number and type of roots of a quadratic equation.
	Modeling with Quadratic Equations	
		Use quadratic equations to model and solve real-world problems.
	Transformations of Quadratic Functions	
		Use completing the square to write quadratic functions in the form y = a(x – h)2 + k.
		Describe the effects of changes in a, h, and k to the graph of a function in the form y = a(x – h)2 + k.
	Square Root Functions	
		Find the inverse of a quadratic function.
		Find the domain of a square root function.
	Unit Test	
Systems		
	Solving Linear Systems Graphically	
		Solve systems of two-variable linear equations graphically.
		Classify systems of two-variable equations as dependent, independent, consistent, or inconsistent.

Options EHS Algebra 2A 2020		Scope and Sequence
Unit	**Lesson**	**Objectives**
		Solve systems of two-variable linear inequalities.
	Solving Linear Systems by Elimination	
		Solve systems of two-variable linear equations using elimination.
	Solving Linear Systems by Substitution	
		Solve systems of two-variable linear equations using substitution.
	Solving 3 x 3 Linear Systems	
		Classify systems of three-variable equations as dependent, independent, consistent, or inconsistent.
		Solve 3 × 3 linear systems algebraically.
	Mixed Degree Systems	
		Solve linear-quadratic systems of equations.
		Solve quadratic-quadratic systems of equations.
		Determine the reasonableness of solutions to systems of a linear equation and a quadratic equation in two variables.
	Unit Test	
Cumulative Exam		
	Cumulative Exam Review	
	Cumulative Exam	