

<b>Course Title</b>	Algebra 1
<b>Standards Taught</b>	<p>HS.AEE.A Use algebraic reasoning to rewrite expressions in equivalent forms.</p> <p>HS.AEE.B Use algebraic reasoning to find solutions to an equation, inequality, and systems of equations or inequalities.</p> <p>HS.AEE.C Analyze the structure of an equation or inequality to determine an efficient strategy to find and justify a solution.</p> <p>HS.AEE.D Make predictions in different applications using expressions, equations, and inequalities to analyze authentic contexts.</p> <p>HS.AFN.A Describe functions by using both symbolic and graphical representations.</p> <p>HS.AFN.B Compare and relate functions using common attributes.</p> <p>HS.AFN.C Represent functions graphically and interpret key features in terms of the equivalent symbolic representation.</p> <p>HS.AFN.D Model a wide variety of authentic situations using functions through the process of making and changing assumptions, assigning variables, and finding solutions to contextual problems.</p> <p>HS.NQ.A Understand and apply the real number system.</p> <p>HS.NQ.B Attend to units of measurement needed to solve problems through quantitative reasoning and mathematical modeling.</p>
<b>Instruction Materials Referenced</b>	Algebra 1, Big Ideas Curriculum
<b>Content Outline</b>	
<b>Unit 1: Expressions and Functions</b>	<ul style="list-style-type: none"> <li>- Evaluate Expressions</li> <li>- Solve one, two, and multi-step equations.</li> <li>- Solve proportions.</li> <li>- Write and solve equations from context.</li> </ul>
<b>Unit 2: Linear and Nonlinear Functions</b>	<ul style="list-style-type: none"> <li>- Graph Linear Functions</li> <li>- Find solutions to linear equations</li> <li>- Write linear equations from graphs</li> </ul>
<b>Unit 3: Linear Inequalities</b>	<ul style="list-style-type: none"> <li>- Solve one, two, and multi-step inequalities</li> <li>- Write inequalities from context</li> <li>- Solve compound inequalities.</li> <li>- Graph linear inequalities</li> </ul>
<b>Unit 4: Systems of Linear Equations and Inequalities</b>	<ul style="list-style-type: none"> <li>- Solve systems of equations by graphing, substitution, and elimination</li> <li>- Write and solve systems of equations from context</li> </ul>
<b>Unit 5: Exponents and Exponential Relationships</b>	<ul style="list-style-type: none"> <li>- Simplify expressions with rules of exponents</li> <li>- Work with exponential functions in context</li> <li>- Graph exponential functions</li> </ul>
<b>Unit 6: Polynomials</b>	<ul style="list-style-type: none"> <li>- Add, subtract, and multiply polynomials</li> <li>- Factor quadratic trinomials</li> </ul>

<b>Unit 7: Quadratic Functions</b>	<ul style="list-style-type: none"><li>- Graph quadratic functions and identify key features</li><li>- Solve quadratic equations</li></ul>
<b>How will students demonstrate the learning?</b>	<ul style="list-style-type: none"><li>- Projects</li><li>- Tests and quizzes</li><li>- Performance tasks</li></ul>