

<b>Planned Course:</b> Algebra II	<b>Course Number:</b> M305	<b>Department:</b> Mathematics	
<b>Unit:</b> Quadratic Equations	<b>Grade Level:</b> 8-12		
<b>Estimated Time:</b> 20 days	<b>Level/Track:</b>	<b>Date Approved:</b> 7/15/08	
PA Academic Standards	Core Concepts (in question format) <ul style="list-style-type: none"> <li>Skills/Knowledge</li> </ul>	Activities/Strategies/Study Skills (identify some activities as remedial or enrichment activities)	Assessments (include types and topics)

<p><b>ASSESSMENT ANCHOR</b></p> <p><b>M11.D.1.1.1</b> Analyze a set of data for the existence of a pattern and represent the pattern algebraically and/or graphically.</p>	<p>▶ What is the quadratic equation?</p> <ul style="list-style-type: none"> <li>Students will be able to identify a quadratic equation.</li> <li>Students will be able to solve basic quadratic equations by finding square roots.</li> </ul> <p>▶ What is a parabola? What does it look like?</p> <ul style="list-style-type: none"> <li>Students will be able to graph a quadratic equation.</li> <li>Students will be able to find the coordinates of the vertex.</li> <li>Students will be able to find the axis of symmetry.</li> </ul>	<ol style="list-style-type: none"> <li>Students will plot points of a quadratic equation using the table of values to discover the shape/form of the parabola.</li> <li>Students will solve basic quadratic equations to discover multiple solutions.</li> <li>Students will calculate the vertex of a parabola, axis of symmetry, y-intercepts, and symmetric points from formulas.</li> </ol>	<ul style="list-style-type: none"> <li>Graded Homework</li> <li>Classroom Observation</li> <li>Online Quiz/Test</li> <li>In Class Quiz/Test</li> <li>Participation</li> <li>Graded Class work</li> <li>Projects</li> </ul>
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