

<b>Planned Course: Honors Algebra II</b>	<b>Course Number: M305H</b>	<b>Department: Mathematics</b>	
<b>Unit: Quadratic Equations &amp; Parabolas</b>	<b>Grade Level: 8-12</b>		
<b>Estimated Time: 20 days</b>	<b>Level/Track: Honors</b>	<b>Date Approved: 08/21/01</b>	
<b>Academic Standards</b>	<b>Skills/Knowledge</b>	<b>Activities</b>	<b>Assessment</b>

<p>2.8.8 Algebra and Functions</p> <p>B. Discover, describe and generalize patterns, including linear, exponential and simple quadratic relationships.</p> <p>J. Show that an equality relationship between two quantities remains the same as long as the same change is made to both quantities; and explain how a change in one quantity determines another quantity in a functional relationship.</p> <p>2.8.11 Algebra and Functions</p> <p>N. Solve linear, quadratic and exponential equations both symbolically and graphically.</p>	<p>The student will be able to solve quadratic equations by finding square roots.</p>	<ul style="list-style-type: none"> <li>• Overhead transparencies</li> <li>• Chalkboard examples</li> <li>• Exercises in book</li> <li>• Worksheets</li> <li>• Graphing calculator</li> </ul>	<ul style="list-style-type: none"> <li>• Classroom observation</li> <li>• Graded homework</li> <li>• Graded class work</li> <li>• Quizzes</li> <li>• Test</li> </ul>
<p>2.8.11 Algebra and Functions</p> <p>J. Demonstrate the connection between algebraic equations and inequalities and the</p>	<p>The student will be able to graph a quadratic equation.</p>	<ul style="list-style-type: none"> <li>• Overhead transparencies</li> <li>• Chalkboard examples</li> <li>• Exercises in book</li> <li>• Worksheets</li> </ul>	<ul style="list-style-type: none"> <li>• Classroom observation</li> <li>• Graded homework</li> <li>• Graded class work</li> <li>• Quizzes</li> </ul>

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<p>geometry of relations in the coordinate plane.</p> <p>N. Solve linear, quadratic and exponential equations both symbolically and graphically.</p> <p>Q. Represent functional relationships in table, charts and graphs.</p>	<p>The student will be able to solve a quadratic equation by completing the square.</p>	<ul style="list-style-type: none"> <li>• Graphing calculator</li> </ul>	<ul style="list-style-type: none"> <li>• Test</li> </ul>		
<p>2.8.11 Algebra and Functions</p> <p>N. Solve linear, quadratic and exponential equations both symbolically and graphically.</p>	<p>The student will be able to solve a quadratic equation by using the quadratic formula.</p> <p>The student will be able to recognize quadratic equations with complex solutions.</p>	<ul style="list-style-type: none"> <li>• Overhead transparencies</li> <li>• Chalkboard examples</li> <li>• Exercises in book</li> <li>• Worksheets</li> <li>• Graphing calculator</li> </ul>	<ul style="list-style-type: none"> <li>• Classroom observation</li> <li>• Graded homework</li> <li>• Graded class work</li> <li>• Quizzes</li> <li>• Test</li> </ul>		

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<p>2.1.11 Numbers, Number Systems and Number Relationships</p> <p>A. Use operations (e.g., opposite, reciprocal, absolute value, raising to a power and finding roots, finding logarithms).</p>	<p>The student will be able to simplify radical expressions.</p>	<ul style="list-style-type: none"> <li>• Overhead transparencies</li> <li>• Chalkboard examples</li> <li>• Exercises in book</li> <li>• Worksheets</li> <li>• Graphing calculator</li> </ul>	<ul style="list-style-type: none"> <li>• Classroom observation</li> <li>• Graded homework</li> <li>• Graded class work</li> <li>• Quizzes</li> <li>• Test</li> </ul>
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