

# Quadratics: Unit Schedule

When			Topics/Student Objectives
2/5	Thursday	1	<b>Complex Numbers and Operations with <math>i</math></b> <ul style="list-style-type: none"> <li>Identify the value <math>i^2</math> and use that property to simplify complex numbers</li> <li>Use the properties of <math>i^2</math> to solve equations containing complex numbers</li> </ul>
2/6	Friday	2	<b>Quadratic Formula and Complex Roots</b> <ul style="list-style-type: none"> <li>Use the quadratic formula to solve a quadratic equation.</li> <li>Write solutions in simplest form</li> <li>Recognize the difference between complex roots and real roots and represent the changes both graphically and with the quadratic formula.</li> </ul>
2/9	Monday	3	<b>QUIZ – Complex Numbers</b> <b>Factoring Quadratic Expressions Review</b> <ul style="list-style-type: none"> <li>Factor a quadratic expression into its factor pair.</li> </ul> <b>Solving Quadratic Equations By Factoring and Graphing</b> <ul style="list-style-type: none"> <li>Find the solution (roots/zeros) of a quadratic equation by factoring.</li> </ul>
2/10	Tuesday	4	<b>Use Graphing Calculator to solve and find factors</b> <ul style="list-style-type: none"> <li>Find the solution (roots/zeros) of a quadratic equation by entering the equation in a graphing calculator to find the zeros.</li> </ul> <b>Converting From Standard form to Vertex Form</b> <ul style="list-style-type: none"> <li>Recognize standard and vertex form of a quadratic expression or equation.</li> <li>Use the calculator to find the vertex of a quadratic</li> <li>Use the vertex to put the equation in standard form.</li> </ul>
2/11	Wednesday	5	<b>Writing Equations From Roots</b> <ul style="list-style-type: none"> <li>Given the roots of a quadratic function, write a quadratic equation for the function.</li> </ul>
2/12	Thursday	6	<b>QUIZ – Finding factors using calculator and factoring</b> <b>Writing Equations From Roots Continued</b> <b>Modeling using Quadratic Functions</b> <ul style="list-style-type: none"> <li>Interpret the graph of a quadratic equation as it relates to the situation it models.</li> </ul>
2/13	Friday		<b>Teacher Work Day</b>
2/16	Monday		<b>Teacher Work Day</b>
2/17	Tuesday	7	<b>Solving Radical Equations</b> Solve radical equations and identify any extraneous solutions.
2/18	Wednesday	8	<b>Quadratics OF Best Fit, Modeling</b> Use the graphing calculator to create a quadratic model for collected data points. Solve real world problems using quadratic models.
2/19	Thursday	9	<b>Review For Test</b>
2/20	Friday	10	<b>UNIT TEST</b>