

Lesson	Topics / Standard	Objectives: Students will be able to	Instructional Activities (modifications / differentiation/ alternative)	Assessment
<b>1</b>	Discriminant/Quadratic Formula N-CN.1 N-CN.2 N-CN.3	Use the discriminant to determine the nature of the roots and then find the roots using the quadratic formula.	-Presentation on what the discriminant will tell us about the solutions to a quadratic equation.	Teacher Observation, Student participation, Homework
<b>2</b>	Discriminant/Quadratic Formula N-CN.1 N-CN.2 N-CN.3	Use the discriminant to determine the nature of the roots and then find the roots using the quadratic formula.	-Review homework -Whiteboard practice	Teacher Observation, Student participation, Homework
<b>3</b>	Quiz N-CN.1 N-CN.2 N-CN.3	Assess students on imaginary numbers.	-Review homework and answer questions -Quiz	Quiz
<b>4</b>	Graph parabolas by finding the x-intercepts, vertex and make a table of points. F-IF.7a A-SSE.3b	-Review quiz -Graphing examples with x-intercepts and without Show where $-b/2a$ comes from by finding the average of the general form of x-intercepts	-SmartBoard Presentation -Student Practice	Teacher Observation, Student participation, Homework
<b>5</b>	Graphing Parabolas (vertex form) F-IF.7a A-SSE.3b	Put a quadratic equation into vertex form and graph using transformations	-SmartBoard Presentation -Student Practice	Teacher Observation, Student participation, Homework

<b>6</b>	Graphing parabolas (vertex form) F-IF.7a A-SSE.3b	Put a quadratic equation into vertex form and graph using transformations	-Smartboard presentation -Groupwork practice	Teacher Observation, Student participation, Homework
<b>7</b>	Quiz on Graphing Parabolas F-IF.7a A-SSE.3b	Assess students on graphing parabolas.	-Review homework  -Quiz	Quiz
<b>8</b>	Quadratic Inequalities in 2 variables F-IF.7a A-SSE.3b	Students will be able to solve quadratic inequalities in 2 variables.	-Review homework -Whiteboard practice -Smartboard presentation -Groupwork practice	Teacher Observation, Student participation, Homework
<b>9</b>	Quadratic Inequalities in 1 variables F-IF.7a A-SSE.3b	Students will be able to solve quadratic inequalities in 1 variable.	-Review homework questions -Smartboard presentation -Groupwork practice	Teacher Observation, Student participation, Homework
<b>10</b>	Quadratic Inequalities in 1 variable F-IF.7a A-SSE.3b	Students will be able to solve quadratic inequalities in 1 variable.	-Student pair practice -Graphing calculator practice	Teacher Observation, Student participation, Homework
<b>11</b>	2 <sup>nd</sup> Marking Period QBA	QBA Assessment	QBA	QBA

<b>12</b>	Quadratic Inequality Applications F-IF.7a A-SSE.3b	Students will be able to solve quadratic inequalities in 1 variable with real world applications.	-Smartboard presentation -Student discovery	Teacher Observation, Student participation, Homework
<b>13</b>	Quiz F-IF.7a A-SSE.3b	Quiz	Quiz	Quiz
<b>14</b>	Intro to Polynomials A-APR.1	Students will be able to identify polynomials by degree and number of terms, be able to evaluate at a given value of x and add/subtract.	-Presentation on vocabulary and examples associated with higher degree polynomials	Teacher Observation, Student participation, Homework
<b>15</b>	Graphical Features of Polynomials A-APR.1	Students will be able to find end behavior or a polynomial, locate maximum and minimum values on a TI-83/Geometer's Sketchpad	-Lab Activity	Teacher Observation, Student participation, Homework