

Teacher / Team Name: The School District of Osceola County Algebra I Regular

Topic: UNIT 10 QUADRATIC EQUATIONS AND FUNCTIONS PLUS RADICAL EXPRESSIONS

Days: 15

Grade(s):

Subject(s):

Know:	Understand:	Do:
<p>Key vocabulary</p> <p>Axis of symmetry, vertex, and intercepts of a parabola</p> <p>Quadratic formula</p> <p>Simplify Radical Expressions</p> <p>Standard form</p>	<p>Quadratic functions may be solved in a variety of ways to solve real world scenarios</p> <p>Simplification of radical expressions</p>	<p>Solve quadratic equations using quadratic formula</p> <p>Change equations into standard form</p> <p>Graph quadratic equations with and without technology</p> <p>Identify axis of symmetry, vertex, domain, range</p> <p>Apply quadratic formula to real world problems</p> <p>Compare and contrast quadratic and linear functions</p> <p>Factor using perfect squares</p> <p>Simplify radical expressions</p> <p>Add, subtract, multiply and divide radical expressions</p>

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Which standards are students learning in this unit?

MA.912.A.7.1: Graph quadratic equations with and without graphing technology.

MA.912.A.7.2: Solve quadratic equations over the real number s by **factoring** and by using the quadratic formula.

MA.912.A.7.8: Use quadratic equations to solve real-world problems.

MA.912.A.7.10: Use graphing technology to find approximate solutions of quadratic equations.

MA.912.A.6.1: Simplify radical expressions.

MA.912.A.6.2: Add, subtract, multiply, and divide radical expressions (square roots and higher ).