

Mathematics: Algebra II Level 3 - Modified from [Unit C Quadratic Equations and Parabolas](#)

Targeted Goals from Stage 1: Desired Results

Content Knowledge: Quadratic Equations have 0, 1 or 2 real number solutions. There are various methods to solving Quadratic Equations and while some are more efficient depending on the equation, the Quadratic Formula is always applicable to all Quadratic Equations. If the answer is not a perfect square, it is sometimes possible to simplify the radical.

Vocabulary: Roots, Zeros, Solutions, Perfect Square, Factors, Radical

Skills: Solving Quadratic Equations when the b value is 0, Properly set up and compute answers using the Quadratic Formula following Order of Operations, Simplify answers in radical form if possible.

Expectation:

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
Monday: Solving Quadratics by Using the Square Root Method	Class Notes - The Square Root Method found– in Google Classroom (PaulBirdsall Altervista)	Textbook: <i>Algebra 2 An Integrated Approach</i> Page 233, Exercises 5, 6, 7, 8, 9, 10
Tuesday: Solving Quadratics by Using the Quadratic Formula	Class Notes - The Quadratic Formula found– in Google Classroom (PaulBirdsall Altervista)	Khan Academy: Four Question Practice Quad Formula
Wednesday: Wrapping up Solving Quadratic Equations	Video: More Practice on Square Root Method	Worksheet on the Square Root Method Found in Google Classroom

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
Thursday: Introduction to Radical Rules and Simplifying Radicals	Video: <u>Simplifying Radicals day 1</u>	Worksheet on Simplifying Radicals Q. 1-10 <u>Found in Google Classroom</u>
Friday: Strategies on Simplifying Radicals	Video: <u>Simplifying Radicals day 2</u> (with enrichment example)	<u>Four Question Exit Ticket</u>

Week criteria for success (attach student checklists or rubrics):

1. Solving quadratic equations by isolating the variable and the quadratic formula
2. Simplifying Square Roots

Supportive resources and tutorials for the week (plans for re-teaching): Khan Academy, Kuta Software worksheets, office hours
remediation material for Quadratic Formula: YouTube video to watch is posted in Google Classroom