

Unit 02: A1 - Ch. 10 - Radical Expressions and Equations

Content Area: **Math**
Course(s): **Algebra1 CP, Algebra 1A, Algebra 1H**
Time Period: **Marking Period 1**
Length: **12 days**
Status: **Published**

Unit Introduction

Standards

MA.F-IF.C.7b	Graph square root, cube root, and piecewise-defined functions, including step functions and absolute value functions.
MA.A-REI.A.2	Solve simple rational and radical equations in one variable, and give examples showing how extraneous solutions may arise.

Essential Questions

- How are radical expression represented?
- How can you solve a radical equation?
- What are the characteristics of square roots functions?

Content

- 10-2 Simplifying Radical (4 Days)
- 10-3 Operations with Radical Expressions (2 Days)
- 10-4 Solving Radical Equations (1 Day)
- 10-5 Graphing Square Root Functions (2 Days)

Skills

- Combine Like Radicals
- Graph a Square Root Function
- Identify Extraneous Solutions
- Identify Radical Equations with No Solutions
- Multiply Radical Expressions
- Multiply Two Radical Expressions
- Rational Denominators

- Simplify Fractions within Radicals
- Simplify Radical Expressions
- Simplify to Combine Like Radicals
- Solve by Isolating the Radical
- Solving with Radicals on Both Sides
- Use graphing calculator and technology where appropriate
- Use relevant Vocabulary, notations, and symbols when appropriate
- Write a Radical Expression