# Algebra 1B Unit 08: Radical Expressions and Equations

Content Area: **Math**
Course(s): **Algebra I B**
Time Period: **Semester 2**
Length: **5 cycles**
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

- Graphing Square Root Functions
- Operations with Radical Expressions
- Simplifying Radical
- Solving Radical Equations

## 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