

# Alg2CP Unit 06 (Chapter 6): Radical Functions and Rational Exponents

Content Area: **Math**  
Course(s): **Level 1 Engineering Drawing, Algebra 2 CP, Algebra 2 A, Algebra 2 H**  
Time Period: **Marking Period 2**  
Length: **4 weeks**  
Status: **Published**

## Unit Introduction

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## Standards

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MA.N-RN.A.1	Explain how the definition of the meaning of rational exponents follows from extending the properties of integer exponents to those values, allowing for a notation for radicals in terms of rational exponents.
MA.N-RN.A.2	Rewrite expressions involving radicals and rational exponents using the properties of exponents.
MA.A-CED.A.4	Rearrange formulas to highlight a quantity of interest, using the same reasoning as in solving equations.
MA.A-REI.A.2	Solve simple rational and radical equations in one variable, and give examples showing how extraneous solutions may arise.
MA.A-SSE.A.2	Use the structure of an expression to identify ways to rewrite it. For example, see $x^4 - y^4$ as $(x^2)^2 - (y^2)^2$ , thus recognizing it as a difference of squares that can be factored as $(x^2 - y^2)(x^2 + y^2)$ .

## Essential Questions

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- How are a function and its inverse function related?
- When you square each side of an equation, is the resulting equation equivalent to the original?

## Content

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- Sec 6.1 - Roots and Radical Expressions (pg. 361)
- Sec 6.4 - Rational Exponents (pg. 381)
- Sec 6.5 - Solving Square Root and Other Radical Equations (pg. 390)

## Skills

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- Covert radicals to rational exponent
- Simplify exponential expressions

- Simplify radicals