

Grade 10 - 12

Distance Learning Module 10: Week of: June 8th to June 12th

Algebra II, Level 3 - Modified from [Unit F - Exponential and Logarithmic Functions](#)

Targeted Goals from Stage 1: Desired Results

Content Knowledge: The purpose of this unit is to expose students to ways of manipulating expressions using exponents. Students are expected to have a conceptual understanding of the rules around exponents and logarithms. They should explore the logic behind the development of negative exponents, zero as an exponent, and rational exponents versus memorizing rules.

Vocabulary: Index, Base, Argument, Exponent, Rational

Skills:

1. Operations on Fractions
2. Evaluating Repeated Multiplication
3. Evaluating Square Roots
4. Evaluating n th Roots
5. Order of Operations (i.e., Grouping Symbols)

Expectation:

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
Monday: Rational Exponents	Khan Academy Video - Intro to Rational Exponents	Khan Academy Practice - Rational Exponents Unit Fractions
Tuesday: Rational Exponents	Live Lesson and Review of Monday	Worksheet - Rational Exponents
Wednesday: Rational Exponents	Khan Academy Video - Rewriting Roots as Rational Exponents	Khan Academy Practice - Fractional Exponents

Description of Task (s):	Resources and Materials:	Daily Checks (Return to Google Classroom or snapshots from a cell phone)
Thursday: Rational Exponents	Khan Academy - Evaluating Fractional Exponents	Worksheet- Evaluating Fractional Exponents
Friday:	Live Session for Review	Worksheet - End of Week Summary

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

Students will be able to:

1. Convert between Fractional Exponents and Radical Notation
2. Simplify variable expressions with Rational Exponents or Radical Notation
3. Evaluate and simplify numerical expressions with Radical Exponents or Radical Notation

Supportive resources and tutorials for the week (plans for re-teaching): Khan Academy, Kuta Software worksheets, office hours

remediation material for Additional Resources; YouTube Video on Fractional Exponents