



Advanced Math Concepts 2nd Grading Period

Power Objectives:

- **Build a function that models a relationship between two quantities and build new functions from existing functions. (P.O.# 8)**
- **Construct and compare linear, quadratic, and exponential models and solve problems. (P.O. #9)**

Academic Vocabulary:

- exponential expressions
- logarithmic expressions and properties
- base
- equations
- domain
- growth
- decay
- condense
- expand

Logarithms

Enduring Understandings:

- Exponentials and logarithms are used in many different applications, such as money, nature, richter scale, reproduction, and various growth and decay application.
- Learning these math models will increase your ability to make predictions and evaluate accurate assessments of real life problems.

Essential Questions:

- How can math modeling be used to help recognize growth and decay situations that occur in various life situations?
- How can these models help us make predictions of future events?
- How can these models help us solve life, financial or scientific problems?