

Exponential Functions, Polynomials, and Quadratic Equations Teacher Materials

This is a guide to help you find where your desired lesson is located! Open the unit that contains the desired lesson and use the table of contents in that file to go right to the lesson.

Unit 6: Exponents & Monomials	Unit 7: Intro to Functions & Exponential Functions
1. Review of Exponents	1: Relations
2. Laws of Exponents	2: Identifying Functions
3: Multiplying Monomials	3: Evaluating Functions
4: Dividing Monomials	4: Features of Functions
5: Complex Expressions	5: Domain and Range
6: Zero & Negative Exponents	6: Piece-wise and Step Functions
7: Scientific Notation	7: Arithmetic Sequences
	8: Geometric Sequences
	9: Linear Vs Exponential (Rate of Change)
	10: Features of Exponential Functions
	10A: Focus on Writing Equations
	11: Exponential Growth Applications
	11A: Exponential Growth (Percents)
	12: Exponential Growth Financial Application
	13: Exponential Decay
Unit 8: Polynomials	
1: Adding Polynomials	
2: Subtracting Polynomials	
3: Multiplying Polynomials	
4: Using FOIL	
5: Special Binomials	
6: Introduction to Factoring	
7: Factoring Using the GCF	
8: Factoring Trinomials	
9: More Factoring Trinomials	
10: Factoring Using Grouping	
11: Factoring Trinomials with a Lead Coefficient Greater Than 1	

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Unit 9: Introduction to Quadratic Equations	Unit 10: Quadratic Equations
1: Introduction to Quadratic Graphs	1: Square Roots
1A: Introduction to Quadratic Equations	2: Simple Quadratic Equations
2: Using Quadratic Graphs	3: Pythagorean Theorem
3: Solving Quadratic Equations Using the Zero Product Property	4: Review of Factoring & Real-World Problems
4. More Solving Quadratic Equations (Not Set Equal to Zero)	5: Introduction to Completing the Square
5: Graphing Quadratic Functions	6: Completing the Square
6: Writing Equations from Graphs Using Zeros	7: More Completing the Square
7: Writing Equations from Graphs Part 2	8: Using the Quadratic Formula
8: Vertex Form	9: Projectile Motion
9: Writing Equations Using Vertex Form	10: The Discriminant
	11: Geometric Applications
	12: Revenue Applications & Other Maximization Problems