

Algebra Class Units 1-10

Solving Equations

Graphing Equations

Writing Equations

Systems of Equations

Inequalities

Relations & Functions

Exponents & Monomials

Polynomials

Factoring Polynomials

Quadratic Equations

Solving Equations Unit #1

There are 11 lessons, 2 quizzes, and 1 chapter test in the Solving Equations Unit. You will also find a “Steps to Solving Equations” organizer and a **bonus** lesson on how to study for quizzes and tests.

Lesson 1: Introduction to Equations

Lesson 2: Solving Addition Equations

Lesson 3: Solving Subtraction Equations

Lesson 4: Solving Multiplication Equations

Lesson 5: Solving Division Equations

Extra Practice - Mixed Review

Lesson 6: Solving Two-Step Equations

Lesson 7: Solving Equations with the Distributive Property

BONUS Lesson: How to Study for Tests and Quizzes

Quiz #1

Lesson 8: Solving Equations with Fractions

Lesson 9: Solving Literal Equations

Lesson 10: Solving Equations with Variables on Both Sides

BONUS: Steps to Solving Equations Template

Study Guide: For Quiz #2

Quiz #2

Lesson 11: Solving Word Problems

Chapter Test

Graphing Equations Unit #2

Lesson 1: Graphing Points on a Coordinate Plane

Lesson 2: Graphing Using a Table of Values

Lesson 3: Calculating Slope

Bonus Lesson: Predicting Slope

Lesson 4: Graphing Slope

Quiz # 1

Lesson 5: Using Slope Intercept Form

Lesson 6: Finding Slope Given Two Points

Lesson 7: Rate of Change

Lesson 8: Graphing Standard Form Equations (Part 1)

Quiz # 2

Lesson 9: Graphing Standard Form Equations (Part 2)

Chapter Test

Writing Equations Unit #3

Lesson 1: Writing Equations in Slope Intercept Form

Lesson 2: Writing Equations in Standard Form

Lesson 3: Writing Equations in Standard Form Based on Word Problems

Mid Chapter Quiz

Lesson 4: Writing Equations Given Slope and a Point

Lesson 5: Writing Equations Given Two Points

Bonus Lesson Solving Real World Problems

Writing Equations Chapter Test

Cumulative Test: Units 1-3

Systems of Equations Unit #4

Lesson 1: Graphing Systems of Equations

Lesson 2: Using the Substitution Method

Mid-Chapter Quiz

Lesson 3: Linear Combinations Method

Bonus Lesson: Which Method Should I Use?

Lesson 4: Systems of Equations Word Problems

Chapter Test

Inequalities Unit #5

Lesson 1: Introduction to Inequalities

Lesson 2: Solving Inequalities in One Variable

Lesson 3: Solving Inequalities in One Variable (Day 2)

Lesson 4: Real World Problems

Quiz #1

Lesson 5: Graphing Linear Inequalities (Day 1)

Lesson 6: Graphing Linear Inequalities (Day 2)

Lesson 7: Systems of Inequalities

Quiz #2

Lesson 8: Systems of Inequalities Word Problems

Chapter Test

Mid-Term Exam

Relations & Functions Unit #6

Lesson 1: Relations

Lesson 2: Identifying Functions

Lesson 3: Evaluating Functions

Lesson 4: Understanding Domain and Range

Quiz # 1

Lesson 5: Linear Functions – Part 1

Lesson 6: Linear Functions – Part 2

Lesson 7: Quadratic Functions – Part 1

Quiz # 2

Lesson 8: Quadratic Functions – Part 2

Lesson 9: One More Look at Functions

Chapter Test

Exponents & Monomials Unit #7

Lesson 1: Review of Exponents

Lesson 2: Compound Interest

Lesson 3: Laws of Exponents

Lesson 4: Multiplying Exponents

Quiz #1

Lesson 5: Dividing Monomials

Lesson 6: Simplifying Complex Expressions

Lesson 7: Zero & Negative Exponents

Quiz # 2

Lesson 8: Scientific Notation

Chapter Test

Polynomials Unit #8

Lesson 1: Adding Polynomials

Lesson 2: Subtracting Polynomials

Lesson 3: Multiplying Polynomials

Lesson 4: Multiplying Binomials Using FOIL

Quiz #1

Lesson 5: Special Binomials

Lesson 6: More on Multiplying Polynomials

Chapter Test

Factoring (Polynomials) Unit #9

Lesson 1: Introduction to Factoring

Lesson 2: Factoring Polynomials Using the GCF

Lesson 3: Factoring Trinomials

Quiz # 1

Lesson 4: Factoring Trinomials – A Special Situation

Lesson 5: Factoring Trinomials in the Form of $Ax^2 + Bx + C$

Chapter Test

Cumulative Test on Polynomials & Factoring

Quadratic Equations Unit #10

Lesson 1: Square Roots

Lesson 2: Using Square Roots to Solve Simple Equations

Lesson 3: Using the Pythagorean Theorem

Quiz #1

Quick Review of Graphing Quadratic Functions

Lesson 4: Solving Quadratic Equations by Factoring

Lesson 5: More Solving Quadratic Equations by Factoring

Lesson 6: Another Look at Graphing Quadratic Equations

Quiz #2

Lesson 7: Using the Quadratic Formula

Lesson 8: Using the Discriminant

Lesson 9: The Discriminant When Graphing Quadratic Equations

Lesson 10: Problem Solving with Quadratic Equations

Chapter Review/Study Guide

Chapter Test