

Algebra Overview

Review Work:

- ◆ Geometry Formulas (2-D and 3-D) ◆ Coordinate Plane ◆ Rounding and Estimating
- ◆ Decimals (4 operations, and how they relate to fractions and percents) ◆ Percents
- ◆ Prime & Composite Numbers and Factoring (GCF & LCM) ◆ Fractions (equivalent fractions, and how they relate to decimal & percents) ◆ Fractions (4 operations) ◆ Rates, Ratios, and Proportions
- ◆ Exponents ◆ Order of Operations

Chapter 1 - Foundations for Algebra

Standard L1.1: Number Systems and Number Sense

Standard A1.1: Construction, Interpretation, and Manipulation of Expressions

Chapter 2 - Equations

Solving Equations including Absolute-Value Equations

Chapter 3 - Inequalities

Solving Inequalities including Absolute-Value Inequalities

Chapter 4 - Functions

Understanding Functions (linear, quadratic, exponential)

Applying Functions (Scatter Plots and Correlations)

Chapter 5 - Linear Functions

Characteristics of Linear Functions Using Linear Functions

Chapter 6 - Systems of Equations and Inequalities

Systems of Linear Equations and Linear Inequalities

Chapter 7 - Exponents and Polynomials

Exponents and Polynomials

Chapter 8 - Factoring Polynomials

Factoring Methods and Applying Factoring Methods

Chapter 9 - Quadratic Functions and Equations

Quadratic Functions and Solving Quadratic Functions

Chapter 11 - Exponential and Radical Functions

Exponential Functions and Radical Functions and Equations