

Algebra 1



Student Testimonials

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Prerequisite Essential Concepts

- Graphing on Coordinate Plane
- Solving Equations
- Fraction & Numerical Reasoning Skills
- Understanding of Percentages
- Order of Operations
- Integer Operations
- Basic Statistics
- Simple Probability
- Scientific Notation
- Pythagorean Property
- Basic Geometry

Program of Studies Key Concepts

- Solving Equations
- Solving Inequalities
- Definition of Function
- Function Notation
- Domain & Range
- Matrix Operations
- Graphing Linear Equations
- Slope and Intercept
- Slope Intercept Form
- Point-Slope Form
- Standard Form
- Parallel & Perpendicular Lines
- Direct & Inverse Variations
- Graphing Linear Inequalities
- Multi-step Inequalities
- Compound Inequalities
- Solving Systems of Equations
 - Graphing
 - Substitution
 - Elimination
- Properties of Exponents
- Simplifying Radical Expressions
- Scientific Notation
- Polynomial Operations
- Factoring Polynomials
- Solving Quadratics by Factoring
- Graphing Quadratic Functions
- Quadratic Formula
- Discriminant Applications
- Scatter Plots
- Statistical Graphs

Homework Expectations

- 60 minutes per 90 minute class

Basic Supplies

- TI-83 or TI-84 Calculator
- Pencils, Erasers, Paper
- Ruler, Graph Paper

Prerequisite Courses

- Math 8 or Algebra Part 1