

Algebra I, Form I

Course Description

This course is designed to introduce students to basic Algebra. Students will learn to manipulate and solve equations for variables. They will be able to solve real world application problems and use introductory probability, statistics, and geometry.

Course Goals

- To introduce students into the language of mathematics
- To provide the skills necessary to simplify quantities
- To develop the skills necessary to solve linear and quadratic equations
- To prepare students for Algebra II

Course Objectives

- Use variables to solve problems
- Use square roots
- Apply the Pythagorean Theorem
- Manipulate variables and equations
- Perform the four basic operations in order to solve for a variable
- Use the order of operations
- Use the commutative, associative, and distributive properties
- Solve linear equations
- Solve linear inequalities
- Graph linear equations and inequalities
- Find slope, y-intercept, and equations of lines
- Find domain and range of a function
- Identify parallel, horizontal, and vertical lines
- Solve quadratic equations by factoring
- Simplify
- Factor
- Find GCF and LCM

- Work with absolute values
- Identify and recognize functions
- Solve a system of linear equations