

Algebra 1 Curriculum

This is a one-year college prep course. Algebra 1 is the critical element in secondary mathematics education. Topics introduced in Algebra 1 provide the foundation students require for future success in high school mathematics, critical thinking, and problem solving. The fundamental topics of this first year Algebra 1 course include recognizing and developing patterns using table, graphs and equations. In addition, students will explore operations with variables, linear and quadratic equations, factoring polynomials, graph and solve word problems. The Math Practice will complement these critical content standards so that students engage with the subject matter as they grow in mathematical mastery during their middle and high school years.

Chapter Topic List:

1. Introduction to Algebra
2. Working with Real Numbers
3. Solving Equations and Problems
4. Polynomials
5. Factoring Polynomials
6. Fractions and Rational Expressions
7. Applying Fractions
8. Introductions to Functions
9. Systems of Linear Equations
10. Inequalities
11. Rational and Irrational Numbers
12. Quadratic Functions