

## **ALGEBRA 1**

Grade Level: 9, 10, 11, 12

Credit: 0.5 or 1.0

Prerequisite: None

Algebra 1 continues the study of algebraic concepts including operations with real numbers and polynomials; relations and functions; creation, graphing, and application of linear functions and relations; and an introduction to non-linear functions. Appropriate technology, from manipulatives to calculators and application software, will be used regularly for instruction and assessment.

---

## **ALGEBRA 1 LESSONS**

### **Teacher Message**

**Lesson 1- Fraction Review**

**Lesson 2- Order of Operations**

**Lesson 3- Combining Like Terms and Properties**

**Lesson 4- Solving Equations**

**Lesson 5- Measures of Central Tendency**

**Lesson 6- Solving Inequalities**

**Lesson 7- Review**

**Lesson 8- Solving Absolute Equations**

**Lesson 9- Linear Equations**

**Lesson 10- Introduction to Graphing**

**Lesson 11- Slope Intercept Form of an Equation**

**Lesson 12- Point-Slope Form of an Equation**

**Lesson 13- Standard Form of an Equation**



**Lesson 14- Review of Applications of Linear Equations**

**Lesson 15- Graphing Systems of Linear Equations**

**Lesson 16- Solving Systems of Equations using Substitution Method and Elimination Method**

**Lesson 17- Applications of Systems of Linear Equations**

**Lesson 18- Exponents and Scientific Notation**

**Lesson 19- Adding and Subtracting Polynomials**

**Lesson 20- Multiplying and Dividing Polynomials**

**Lesson 21- Factoring Polynomials**

**Lesson 22- Solving Quadratics by Factoring and Graphing**

**Lesson 23- Review**

**Lesson 24- Probability**

**Lesson 25- Functions, Notation**

**Lesson 26- Multiplying and Dividing Rational Expressions**

**Lesson 27- Adding and Subtracting Rational Expressions**

**Lesson 28- Solving Rational Equations**

**Lesson 29- Review**

