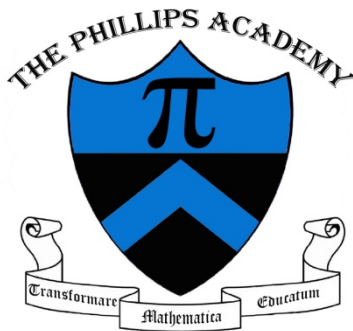


**THE PHILLIPS  
ACADEMY**



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## Algebra I

This course is designed to cover all of the basic algebra concepts found in a standard college preparatory Algebra I curriculum. It is the second course in a six-course sequence that tells the story of mathematics. Topics include: Simplifying Expressions, Solving Equations, Substitution, Absolute Value, Translating Algebraic Sentences, Solving Algebraic Equations, Plotting Coordinates, Graphing Linear Equations, Calculating Slope, Determining Equations of Lines, Function Notation, Simplifying Polynomial Expressions, Division of Monomials and Polynomials, Radical Equations, Simplifying Radicals, Operations on Radicals, Factoring, Solving Polynomial Equations, Restrictions, Scientific Notation, Integer Exponents, Complex Algebraic Fractions, Literal Equations, Intersections and Unions of Sets, Solving Inequalities with One Variable, Graphing Inequalities with Two Variables, and Mixture, Uniform Motion, Consecutive Integer, and Parabolic Trajectory Applications. By the end of this course, students will be prepared to tackle the Geometry curriculum.