

# **Algebra 1 Course Outline**

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## **Course description**

*Algebra 1* is a course designed to help students understand the meaning of variables and how we use them to represent numbers. Students will learn how to solve equations and inequalities with one or two variables, how to graph equations, and understand the relationship between a graph and its equation. Most importantly, this course will give students a basic understanding of algebra: how numbers and variables work together. The goal of this course is to refresh the algebra skills students already have (even if they may not realize they have them), challenge their minds to learn more difficult material, and build new mathematical knowledge through problem solving.

Topics include rational numbers, solving equations and inequalities, factoring polynomials, and systems of equations and inequalities.

## **Grading**

Quizzes	20%
Daily work	30%
Projects	30%
Progress Tests	20%

## **Class Materials**

Pencils

Ruler

Notebook

Eraser

Calculator (TI 84)

Graph paper

