

Course Syllabus

Description:

Algebra I is the foundation—the skills acquired in this course contain the basic knowledge needed for all future high school math courses. The material covered in this course is important, but everyone can do it. Everyone can have a good time solving the hundreds of real-world problems algebra can help answer. Course activities make the numbers, graphs, and equations more real. The content in this course is tied to real-world applications like sports, travel, business, and health.

This course is designed to give students the skills and strategies to solve all kinds of mathematical problems. Students will also acquire the confidence needed to handle everything high school math has in store for them. Algebra 1 emphasizes the importance of algebra in everyday life through hundreds of real-world examples. Assessments are designed to ensure that your understanding goes beyond rote memorization of steps and procedures. Upon successful course completion, you will have a strong foundation in Algebra I and will be prepared for other higher-level math courses.

Estimated Completion Time:

2 segments / 32-36 weeks.

Major Topics and Concepts:

Segment 1:

- Module 1: Algebra Basics
- Module 2: Linear Functions
- Module 3: Exponential Functions
- Module 4: Systems of Equations and Inequalities

Segment 2

- Module 5: Statistics
- Module 6: Polynomial Operations
- Module 7: Factoring and Graphing Polynomials
- Module 8: Quadratic Functions

Required Materials

Calculator

Communication Policy

To achieve success, students are expected to submit work in each course weekly. Students can learn at their own pace; however, “any pace” still means that students must make progress in the course every week. To measure learning, students complete self-checks, practice lessons, multiple-choice questions, projects, Discussion-Based Assessments, and discussions. Students are expected to maintain regular contact with teachers; the minimum requirement is monthly. When teachers, students, and parents work together, students are successful.
