

Syllabus: Algebra I A for Credit Recovery

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 I 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.

Segment I

Module 01: Algebra Foundations

- 01.00: Introduction and Pretest
- 01.01: Numerical Operations
- 01.02: Algebraic Expressions
- 01.03: Units and Graphs
- 01.04: Module One Quiz
- 01.05: Descriptive Modeling and Accuracy
- 01.06: Translations
- 01.07: Algebraic Properties and Equations
- 01.08: Module One Review and Practice Test
- 01.09: Discussion-Based Assessment
- 01.10: Reflection
- 01.11: Module One Test

Module 02: Equations and Inequalities

- 02.00: Module Two Pretest
- 02.01: One-Variable Equations
- 02.02: Two-Variable Equations
- 02.03: Absolute Value Equations
- 02.04: Module Two Quiz
- 02.05: Inequalities
- 02.06: Compound Inequalities
- 02.07: Literal Equations
- 02.08: Module Two Review and Practice Test
- 02.09: Discussion-Based Assessment
- 02.10: Module Two Test

Module 03: Linear Functions

- 03.00: Module Three Pretest

- 03.01: Relations and Functions
- 03.02: Function Notation and Graphs
- 03.03: Linear Functions
- 03.04: Module Three Quiz
- 03.05: Linear Models
- 03.06: Writing Linear Functions
- 03.07: Horizontal and Vertical Lines
- 03.08: Reflection
- 03.09: Module Three Review and Practice Test
- 03.10: Discussion-Based Assessment
- 03.11: Module Three Test

Module 04: Exponential Functions

- 04.00: Module Four Pretest
- 04.01: Properties of Exponents
- 04.02: Operations with Radicals
- 04.03: Exponential Functions and Models
- 04.04: Module Four Quiz
- 04.05: Graphing Exponential Functions
- 04.06: Sequences
- 04.07: Exploring Linear and Exponential Growth
- 04.08: Module Four Review and Practice Test
- 04.09: Discussion-Based Assessment
- 04.10: Module Four Test

Module 05: Systems of Equations

- 05.00: Module Five Pretest
- 05.01: Solving Systems of Equations Graphically
- 05.02: Solving Systems of Equations Algebraically
- 05.03: Solving Systems of Equations Approximately
- 05.04: Module Five Quiz
- 05.05: Two-Variable Linear Inequalities
- 05.06: Systems of Linear Inequalities
- 05.07: Reflection
- 05.08: Exam Preparation
- 05.09: Module Five Review and Practice Test
- 05.10: Discussion-Based Assessment
- 05.11: Module Five Test
- 05.12: Segment One Review and Practice Test
- 05.13: Segment One Exam

Course Assessment and Participation Requirements:

To achieve success, students are expected to submit work in each course weekly. 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. When teachers, students, and parents work together, students are successful.