

ALGEBRA I

TEXT

Algebra I: Applications, Equations, and Graphs

PREREQUISITES

A solid foundation in the fundamentals of arithmetic operations (addition, subtraction, multiplication and division) of whole numbers, fractions, decimals, pre-algebra skills, and a willingness and ability to demonstrate the skills, organization, and discipline necessary for a college preparatory course.

OBJECTIVES

- Understand number systems and strengthening number sense
- Work with equations and inequalities
- Develop the ability to factor
- Understand functional relationships and graphing

CONTENT

- Variables and equations
- Real numbers
- Solving equations
- Polynomials
- Factoring polynomials
- Ratios and proportions
- Functions
- Linear equations and systems of linear equations
- Inequalities
- Rational and irrational numbers

SKILLS

- Develop effective organizational systems
- Develop problem solving ability
- Keep current with assignments
- Develop the ability to attempt difficult material
- Develop effective and efficient study habits

METHODS

General techniques will involve lecture/note-taking and problem solving. A portion of each class period is set aside for individual instruction with formal peer tutoring.

HOMEWORK

Homework consists of completion of classroom-originated work, out of class assignments, and studying for quizzes and chapter tests.

GRADING/CREDITS

Grades are determined from daily assignments (25%) and tests (40%) and quizzes (25%) and participation (10%). Each chapter in the course is worth one credit.

INDIVIDUALIZATION

As much individual instruction as possible will be given to students, both in and outside of the classroom to meet student needs. Contractual arrangements with teacher are negotiable and always include demonstration of individual mastery of material.

ABSENCES/TARDIES

Mastering Algebra I is a cumulative endeavor; therefore attendance is absolutely crucial to success in the course. Students are responsible for all assignments, quizzes or tests including those given when they are absent or tardy.