



ALGEBRA 12

Insert Teacher Name

Insert Room Number

Insert Full Year/Semester

Insert Period

Insert Email Address

COURSE DESCRIPTION

This first course in algebra furthers the students' skills in operating with real numbers, variables and algebraic properties. Algebra 12 begins with the development of the function. Major topics include: solutions of linear and quadratic equations, graphing functions, data analysis, exponents, factoring, solutions of systems of linear equations. Throughout the course, there will be an integration of problem solving techniques, communication skills, computing and estimating, the use of technology, and real life applications.

COURSE OBJECTIVES

Students should:

- understand and describe patterns and functional relationships.
- represent and analyze quantitative relationships in a variety of ways.
- use operations, properties, and algebraic symbols to determine equivalence and solve problems.
- understand that a variety of numerical representations can be used to describe quantitative relationships.
- use numbers and their properties to compute flexibly and fluently, and to reasonably estimate measures and quantities.
- collect, organize and display data using appropriate statistical and graphical methods.
- analyze data sets to form hypotheses and make predictions.
- understand and apply basic concepts of probability.

UNITS OF STUDY

- Functions
- Linear Functions
- Solving One Variable Equations
- Solving Two Variable Equations
- Linear Modeling
- Quadratic Functions
- Quadratic Equations
- Complex Equations
- Statistics and Variation

COURSE POLICIES AND REQUIREMENTS

GRADING

Summative Assessments:	70% Total May Include: Individual Tests, Projects, Mid-Chapter Tests
Formative Assessments:	20% Total May Include: Team Quizzes, Class Presentations/Projects
Behavioral Characteristics:	10% Total May Include: Homework, Participation Quizzes

Insert Additional Grading Information Here

MATERIALS

Insert Course Materials Here (ie. Textbook, Binder, Calculator, Highlighters)

EXPECTATIONS OF STUDENTS

To be respectful to all other individuals and all property
To be prepared and on time with appropriate materials and assignments
To be responsible for any missed work and notes
To be motivated to learn and accept challenges

EXTRA HELP

Insert Course Expectations Here

Insert Additional Information Here