



Algebra I CP

Prerequisite: Students entering 9th grade must meet rubric requirements and have completed Pre-Algebra. Students will continue to develop organizational skills and strengthen higher order thinking skills. Topics covered include variables, expressions and equations, numerical operations of rational numbers, solving equations, manipulating polynomials, factoring, simplifying algebraic fractions, ratios, proportions, solving fractional equations, percents, functions, linear equations and their graphs, data analysis, systems of equations, solving and graphing inequalities, and rational and irrational numbers.

Course Goals

Students will:

- Enhance organizational skills
- Strengthen higher order thinking skills.
- Enhance problem solving skills
- Understand the meaning of the orders of operations.
- Identify functions and linear functions.
- Understand the difference between expressions, equations, inequalities, system of equations, and systems of inequalities.
- Graphing equations, inequalities, systems of equations and inequalities.
- Understand exponents and polynomial rules.
- Understand data analysis and probability.
- Simplify rational expressions and radicals.

Course Topics

- Equations
- Inequalities
- Functions
- Linear Functions
- Systems of Equations and Inequalities
- Exponents and Polynomials
- Factoring Polynomials
- LCM & Rational Expressions
- Rational & Irrational Square Roots
- Data Analysis and Probability