

Wilcox High School

Algebra 1

COURSE DESCRIPTION

Algebra 1 is a one-year course that builds on arithmetic skills and algebraic concepts taught in the earlier grades. A grade of "C" or better is required for continuation to Geometry and for admission to the University of California.

ESSENTIAL KNOWLEDGE

Upon successful completion of this class, students will be able to:

- Understand and perform the operations of multiplication, division, addition and subtraction over the set of rational numbers
- Add, subtract, multiply and simplify algebraic expressions (special emphasis on the distributive property)
- Solve linear equations
- Translate simple linear relationships into equations
- Factor first and second degree polynomials
- Understand and apply the properties of proportions and percents
- Graph linear equations and inequalities in the coordinate plane
- Analyze linear equations and find equations of lines
- Understand appropriate terminology and notation used to define functions and their properties (including but not limited to domain and range)
- Translate simple linear relationships into equations
- Use various methods to solve systems of equations and inequalities (graphing, substitution and eliminations)
- Understand the properties and basic theorems of whole number roots
- Simplify numerical radicals
- Solve quadratic equations using the quadratic formula and factoring

TEXT

California Algebra 1, Prentice Hall (publishers)

MATERIALS NEEDED DAILY

Pencil and eraser

Notebook (journal)

Textbook