

Algebra Foundations – Course Syllabus

Course Materials

- Unit Packet Handouts
- Google Classroom
- Scientific Calculators

Course Outline

- **Unit 1: Real Numbers**
 - Integers, Integer Operations, and Absolute Value
 - Fractions, Decimals, and Percents
 - Operations with Fractions
 - Exponents, Zero Exponent, Negative Exponents
 - Perfect Squares, Square Roots, Non-Perfect Squares, Perfect Cubes, and Cube Roots
 - Scientific Notation, Comparing & Ordering Number Forms
 - Order of Operations
 - Evaluating Expressions
 - The Real Number System
 - Properties of Real Numbers
- **Unit 2: Algebraic Expressions**
 - Translating Expressions
 - Combine Like Terms
 - Distributive Property
 - Factoring Linear Expressions
 - Operations with Monomials
 - Exponent Rules
 - Adding and Subtracting Polynomials
- **Unit 3: Equations and Inequalities**
 - Solving One-Step Equations
 - Solving Rational Equations
 - Solving Two-Step Equations
 - Solving Equations by Square Roots
 - Solving Multi-Step Equations
 - Solve and Graph Linear Inequalities
- **Unit 4: Ratios, Proportions, and Percentages**
 - Ratios, Rates, and Unit Rates
 - Proportional Relationships
 - Solving Proportions
 - Percent Proportion
 - Percent Equation
 - Percent of Change

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- Simple Interest
- **Unit 5: Functions and Linear Relationships**
 - Coordinate Plane
 - Graphing Linear Equations
 - Rate of Change/Slope
 - Slope Formula
 - Standard Form
 - Vertical and Horizontal Lines
 - Linear vs. Nonlinear Equations
 - Slope-Intercept Form
 - Proportional Relationships

Grading Policy

Points	Description
60%	Assessments: Quizzes, Tests, Exams
20%	Homework Problem Sets
20%	Classwork: Handouts, Desmos, Quizizz, Blooket, Note-Taking, Problem Sets

Late Work Policy

If you are absent, the district policy is a 1 for 1 make-up where you get 1 day for each day of absence to make-up and submit missing work. Students are strongly encouraged to attend office hours during common lunch following an absence to make-up or for extra help with missed lessons.