College Prep Math Year-At-A-Glance 2026-2027

Semester 1

- **Review of Real Numbers**
  - Symbols and Sets of Numbers
  - Fractions & Mixed Numbers
  - Exponents & Order of Operations, Variable Expressions, & Equations
  - Operations with Real Numbers
  - Properties of Real Numbers
- **Concepts of Statistics**
  - Averages: Mean, Median, Mode, and Range
  - Probability
  - Interpret Data: Tables, Charts, and Graphs
- **Equations, Inequalities, & Problem Solving**
  - Evaluating and Simplifying Algebraic Expressions
  - Properties of Equality & Solving Linear Equations
  - Solving Linear Inequalities
  - Problem Solving: Direct and Indirect Translation
  - Problem Solving: Percent, Formulas, Proportions, and Ratios
- **Geometry**
  - Units of Measurement and Conversions
  - Area, Perimeter, Surface Area, and Volume
  - Lines & Angles
  - Classify Triangles
  - Pythagorean Theorem
  - Trig Functions: Sine, Cosine, Tangent, and Cotangent
- **Graphing**
  - Linear Equations, Intercepts, Slope and Rate of Change
  - Equations of Lines
  - Functions
- **Solving Systems of Linear Equations**
  - Graphing, Substitution, & Elimination/Addition Methods
  - Problem Solving with Systems of Equations
- **Exponents**
  - Rules of Exponents: Power, Quotient, Zero Rule, Power of a Power & Power of a Quotient
  - Negative Exponents & Scientific Notation
  - Square Roots & Perfect Squares

Semester Exam

Semester 2

- **Polynomials**
  - Polynomial Function Operations: Addition, Subtraction & Multiplying
  - Special Products
  - Negative Exponents & Scientific Notation
  - Dividing Polynomials
- **Factoring Polynomials**
  - GCF
  - Factoring Trinomials
  - Factoring Binomials
  - Solving Quadratic Equations by Factoring
  - Pythagorean Theorem and Quadratic Equations
- **Quadratic Equations and Functions**
  - Square Root Method and Quadratic Formula
  - Quadratic Equations & Problem Solving
  - Quadratic Functions and their Graphs
- **Rational Expressions**
  - Rational Functions & Simplifying Rational Expressions
  - Rational Expressions Operations: Common & Unlike Denominators
  - Solving Equations Containing Rational Expressions
- **Rational Exponents, Radicals, & Complex Numbers**
  - Radicals & Radical Functions
  - Rational Exponents
  - Simplifying Radical Expressions
  - Radical Expressions Operations
  - Problem Solving
  - Complex Numbers
- **Functions**
  - Function Notation; Graphing and Writing Linear Functions
  - Function Notation; Graphing and Writing Non-linear Functions
  - Reflecting and Shifting Graphs of Functions
  - Operations of functions*
  - Identify One-to-one Functions*

Semester Exam

Resources can be found in Clever and/or Canvas. Please check with your teacher for specific use.