

# Math 2 Curriculum

This is a one year college prep class. The focus of the Math 2 course is on quadratic expressions, equations, and functions; comparing their characteristics and behavior to those of linear and exponential relationships from Math 1. The instructional time will focus on five critical areas: (1) extend the laws of exponents to rational exponents; (2) compare key characteristics of quadratic functions with those of linear and exponential functions; (3) create and solve equations and inequalities involving linear, exponential, and quadratic expressions; (4) extend work with probability; and (5) establish criteria for similarity of triangles based on dilations and proportional reasoning. The Math Practice will complement these critical content standards so that students engage with the subject matter as they grow in mathematical mastery during their high school years.

## **Chapter Topic List:**

1. Functions and Exponents
2. Polynomial Equations and Factoring
3. Graphing Quadratic Functions
4. Solving Quadratic Equations
5. Probability
6. Relationships Within Triangles
7. Quadrilaterals and Other Polygons
8. Similarity
9. Right Triangles and Trigonometry
10. Circles
11. Circumference, Area and Volume