

# Algebra 2/Trig Curriculum

This is a one year college prep class. Algebra II/Trig reviews the concepts and skills mastered in Algebra I and uses them as a foundation for more advanced applications and problem solving. The course introduces right triangle trigonometry, conic sections, and logarithmic functions, while expanding knowledge of analytic geometry. Additional topics include exponential functions, radical and rational equations, systems of equations, inequalities, matrices, inverse functions, series and sequences and complex numbers. 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. **Use of a graphing calculator is an integral part of the course.**

## Chapter Topic List:

1. Basic Concepts of Algebra
2. Inequalities and Proof
3. Linear Equations and Functions
4. Product and Factors, Polynomials and Rational Expressions
5. Irrational and Complex Numbers
6. Quadratic Equations and Functions
7. Variation and Polynomial Equations
8. Analytic Geometry
9. Exponential and Logarithmic Functions
10. Triangle Trigonometry
11. Trigonometric Graphs and Identities
12. Trigonometric Applications
13. Statistics and Probability