

# Algebra 2 Syllabus

Mr. Adams

## INSTRUCTIONAL GOALS

Algebra 2 offers a refined understanding of Algebraic concepts as well as an introduction to trigonometry and statistics.

Upon successful completion of this course, you will:

- Master operations with polynomials
- Understand function behavior
- Gain prerequisite information for trigonometry
- Understand and interpret exponential functions
- Be prepared to enter a pre-calculus level course

## NEEDS AND RESOURCES

### **Required Background**

To successfully complete this course, you must have a solid background with tools from high school Algebra 1 and Geometry including, but not limited to:

- Solving linear and quadratic equations and systems
- Graphing linear and non-linear functions
- Simplifying polynomial expressions

### **Required Materials**

To successfully complete this course, you will need

- Textbook: Algebra 2; Eureka Math
- TI-84 Plus Graphing Calculator (provided for in-class use)
- Paper and pencil
- Folder or binder

### **Online Resources**

- Desmos Online Graphing Calculator (free phone app available)
- Google Classroom
- Links to Lesson resources and assignments may be posted on Google Classroom
- Khan Academy is highly recommended for course review

# COURSE SCHEDULE

Course standards are available through <https://www.tn.gov/education/instruction/academic-standards/mathematics-standards.html>

Algebra 2 concept units are as follows:

1. Structure and Operation: Polynomial Arithmetic and Algebra
2. Equations and Inequalities: Solving Equations, Systems of Equations, Conic Sections
3. Functions: Function Theory, Types of Functions and their properties
4. Interpreting Data: Statistics and Probability

## POLICIES AND PROCEDURES

### **General Rules:**

Students are expected to come to class regularly ready to participate.

### **Grading Policies:**

Student averages will be calculated using the following weights:

Daily Grades (Homework, Classwork, etc.) – 70%

Quizzes/Tests – 30%

Quizzes will be assessed soon after students have received instruction and had multiple assignments on an individual topic. As such, these tend to be the best reflection of their learning and warrant the higher percentage in their average.

## CONTACT INFORMATION

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