

**Trinity Christian Academy**  
**Algebra 2 A Syllabus**  
**Mr. Robbins**  
**Room J209**  
**robbins.dan@tcamail.org**  
**Office hours: Tuesday/Thursday: 3:40 - 4:00**

**Course Description:**

In Algebra 2, we will be covering a variety of topics. Each chapter will consist of homework, quizzes, a chapter test, activities, and projects, which will be worth either a homework, quiz or test grade based on the level of difficulty.

This course includes a study of equations, inequalities, linear equations, functions, systems of linear equations and inequalities, matrices, determinants, quadratic functions, polynomials, polynomial functions, powers, roots, radicals, exponential and logarithmic functions, rational equations, quadratic relations, conic sections, sequences, series, probability, statistics, trigonometric ratios and functions, trigonometric graphs, trigonometric identities, and trigonometric equations

**Prerequisites:**

Algebra 1 and Geometry

**Major Topics or Themes to be Covered:**

Chapter 1: Quadratic Functions and Factoring  
Chapter 2: Polynomials and Polynomial Functions  
Chapter 3: Rational Exponents Radical Functions  
Chapter 4: Exponential and Logarithmic Functions  
Chapter 5: Rational Functions  
Chapter 6: Data Analysis and Statistics  
Chapter 7: Sequences and Series  
Chapter 8: Quadratic Relations and Conic Sections

**Turnitin.com:**

Students will be required to complete, at least, one writing assignment per quarter. All writing assignments will be submitted through turnitin.com.

Class ID: 15862324  
Password: Alg2

**Projects:**

Quarter 1: Group Project: Problem Solving  
Quarter 2: Complete the Square Project  
Quarter 3: "The Reciprocal Gospel"  
Quarter 4: Sequences and Series Art Project

\*All projects are subject to change.

**Required Supplies:**

- Pens or pencils
- Loose leaf graph paper
- Loose leaf college rule paper
- 1 subject college rule notebook
- Graphing Calculator (Texas Instrument TI-84 Plus is recommended)
- Scientific Calculator

**Class Rules/Policies:**

Students will be expected to follow any all rules set by Trinity Christian Academy found in the student handbook. Any infractions of the rules and/or procedures will result in a predetermined consequence.

- 1) Be prepared for class and in seat 30 seconds after bell.
- 2) Be attentive always during class.
- 3) Cell phones allowed only when permitted.
- 4) No food in class (especially gum).

**Grading:**

Grading weights for Algebra 2 are: 50% for tests and major projects, 35% for quizzes and non-major projects, and 15% for homework and daily work and participation.