



# Algebra II A/B

## Grand Haven High School Mathematics Department



Course Number: E45A & E45B

Grade Level: 11 & 12

Credits: 1 credit

Prerequisite Courses: Algebra I and Geometry

### Course Overview

This mathematics course focuses on previously studied algebraic concepts. In addition, the student will study exponential expressions and equations, linear and quadratic relations and functions, sequences and series, matrices, trigonometry, probability and statistics. Algebra 2 is a college preparatory class and in order to be enrolled in this course you must have successfully completed Algebra I and Geometry.

### Course Objectives

Algebra II A will review concepts taught in Algebra I, and build skills to solve systems of equations with two or more variables, exponential and logarithmic functions. Algebra II B will focus on functions: power, inverse, trigonometric and rational. We will also work with conics, probability, and statistics.

### Student Expectations

**A positive attitude will bring positive results**, and all students and staff are expected to do their personal best in class daily. Respect for yourself, others, and the environment around you will also be expected from everyone in the classroom.

Successful completion of Algebra II A/B requires consistent attendance, active participation in class, work completion, and responsibly checking Google Classroom for missed assignments, and best effort on quizzes and tests.

### Communication

Together as a class we will be communicating through our google accounts, email and Google Classroom. Students are expected to regularly monitor their progress through the StudentVue and Google Classroom. Parents and students are encouraged to contact teachers through email or phone with any questions or concern. The Math Lab is available for additional help.

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### **Building Behavioral Expectations**

***TEAM GH ... One Team, One Family, One Grand Haven. Be Kind. Always.***

It is our expectation that ALL GHHS students, staff and parents will ... always give their best **EFFORT** in everything that they do, work hard to be **INCLUSIVE** of each other, show **RESPONSIBILITY** in class, the hallways, cafeteria and at events, and **WORK TOGETHER** at all times!

**GO BUCS**

## Grade Policy

Chapter Test: **50%**

Quizzes: **30%**

Daily Assignments / Class Work: **20%**

## Scope and Sequence

### *Algebra II A*

CH 1: Linear Functions

CH 2: Quadratic Functions

CH 3: Quadratic Equations and Exponential Numbers

CH 4: Polynomial Functions

CH 5: Rational Exponents and Rational Functions

### *Algebra II B*

CH 6: Exponential and Logarithmic Functions

CH 7: Rational Functions

CH 8: Probability

CH 9: Data Analysis and Statistics

CH 10: Trigonometric Ratios and Functions

CH 11: Sequences and Series

CH 12: Matrices

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