



# Geometry

## Grand Haven High School



Course Number: E30A & E30B  
Grade Level: 9-12  
Credits : 1 credit  
Prerequisite Courses : Algebra 1

### Course Description

Geometry is a two-semester course that is required for graduation. Geometry stresses the ability to reason logically and to think critically. A scientific Calculator or graphing calculator is strongly recommended.

Geometry A focuses on logical thinking and proof, foundations of Euclidean Geometry, parallel and perpendicular lines, transformations, and relationships and properties of triangles.

Geometry B focuses on polygons and quadrilaterals, similarity, right triangles and Trigonometry, area and volume of two-dimensional and three-dimensional figures, circles, probability, and applications of Geometry.

### Course Objectives

Both semesters will review and reinforce many of the topics covered in Algebra 1 and build skills in Visualization, Reasoning and Proof, Measurement, Coordinate Geometry, Transformations, Congruence and Similarity.

### Student Expectations

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

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

### Communication

- \* 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 concerns.
- \* The Math Lab is available for additional help.

### 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**

## Grading Policy

- \* Tests 50%
- \* Quizzes 30%
- \* Assignments/Participation 20%

## Scope and Sequence

### 1st Semester

- Chapter 1 Basics of Geometry
- Chapter 2 Reasoning and Proof
- Chapter 3 Parallel and Perpendicular Lines
- Chapter 4 Transformations
- Chapter 5 Congruent Triangles
- Chapter 6 Relationships Within Triangles

### 2nd Semester

- Chapter 7 Quadrilaterals and Other Polygons
- Chapter 8 Similarity
- Chapter 9 Right Triangles and Trigonometry
- Chapter 10 Circles
- Chapter 11 Circumference and Area
- Chapter 12 Surface Area and Volume
- Chapter 13 Probability

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