



Visual Math Grand Haven High School



Course Number: E38

Grade Level: 9 and 10

Credits : 0.5

Prerequisite Courses : Successful completion of Algebra 1 and Geometry

Course Description

This course is designed to allow students a deeper understanding of topics learned in Algebra I and Geometry. A visual approach using a variety of technologies will be used to explore transformations, tangrams, pentominoes, line art, tilings, origami, graph theory, constructions, data analysis and problem solving. A TI-graphing calculator is required.

Course Objectives

Students will get a deeper understanding of topics learned in Algebra 1 and Geometry. A visual approach will be used to make stronger connections between these math disciplines. Students will gain an appreciation of how math is used to make the world more aesthetically pleasing. Using manipulatives and technology we will explore topics of constructions, art, origami, 2-D and 3-D shapes, discrete math topics, and family of functions.

Student Expectations

Students are expected to be active participants in their education. You will be asked to complete problems during classtime, participate in class discussions, complete all assigned work and use best effort on quizzes and tests. Students should seek additional help as needed for you to understand the material. Our classroom should be one where all students are able to participate and feel comfortable doing so. Students are expected to obtain a graphing calculator for this course, see teacher for suggested model. A folder specific to math is also encouraged.

Communication

Students are expected to regularly monitor their progress through the Parent Internet Viewer and teacher blog sites. Parents and students are encouraged to contact teachers through email or phone with any questions or concerns.

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!

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Grading Policy

In Class Participation (20%)

In-class participation will play an important part of your grade. This will be based on attendance, completion of in class activities, and behavior in the class. You will start with 100 points and points will be deducted if I feel participation is lacking.

Assignments (30%)

Assignments will be given to reinforce or expand upon topics discussed in class. These will mainly be in the form of worksheets. Other assignments may include in-class activities and short writing assignments.

Projects and Assessments (50%)

Projects will help demonstrate knowledge of topics we discussed in class. Directions and a grading rubric will be given for each project. Assessments may be quizzes or tests. These will be announced and discussed during class.

Scope and Sequence

We will explore topics of

Constructions,

Art,

Origami,

2-D and 3-D shapes,

Discrete math topics,

Family of functions.

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