

## Course Syllabus

# GEOMETRY

## Honors

**Teacher:** Annette P. Williams

### SYLLABUS

**COURSE NUMBER:** 1206310

**COURSE DESCRIPTION:** This course is to develop the geometric relationships and deductive strategies which can be used to solve a variety of real-world and mathematical problems.

**PREREQUISITES:** Students should have successfully completed Algebra 1 or 1B.

### COURSE OBJECTIVES:

1) Demonstrate an understanding of the terminology and fundamental properties of geometry. 2) Use geometric models to represent and solve problems. 3) Develop and understanding of an axiomatic system. 4) Compare and contrast the relationships between plane and plane and solid geometry (parallelism, perpendicularity, congruence, and similarity). 5) Demonstrate and understanding of transformational (including flips, turns and slides), and coordinate geometry. 6) Measure quantities in the real world and use the measures to solve problems: Plane and solid figures, including perimeter, area, volume, and application of the Pythagorean Theorem. 7) Constructions

### COURSE OUTLINE:

- 1) Tools of Geometry (1-1/1-7): Vocabulary; Quizzes (1-1/1-7); Test 1
- 2) Reasoning and Proof (2-1/2-5); Vocabulary; Quizzes (2-1/2-5); Test 2
- 3) Parallel and Perpendicular Lines, Triangles and Polygons; Vocabulary;(3-1/3-7); Quizzes, Test 3
- 4) Congruent Triangles(4-1/4-7); Vocabulary; Quizzes, Test 4
- 5) Relationships within Triangles (5-1/5-5) ; Vocabulary; Quizzes, Test 5
- 6) Quadrilaterals; (6-1/6-7); Voc.; Quizzes, Test 6
- 7) Areas/Surface, Volumes, Circles; 7,10 and 11; Quizzes, Test (combination of 7,10,11)
- 8) Similarity; (8-1/8-6); Vocabulary, Quizzes; Test 8
- 9) Right Triangle Trig., Transformations 9, 12; Vocabulary, Quizzes, Test

**Projects:** String Art, Congruent Triangle Bridge, Tessellations and/or 3-Dimensional Mobiles

Classes sometimes work with Mr. Harrison's Engineer Classes.

**COURSE REQUIREMENTS AND EVALUATION:**

- I. Exams ( class-tests, semester exams-2)
- II. Quizzes (section quizzes, vocabulary)
- III. Homework Assignments (Twice weekly)
- IV. Project (under **Course Outline**)
- V. Class Participation/worksheets/text
- VI. Comprehensive Final Exam
- VII. Task/Vocabulary/Reading/FCAT Training Sheets

**TEXT AND OTHER RESOURCE MATERIAL:**

Geometry; Prentice Hall; Reading and Math Literary Masters; FCAT Transparency Warm-ups; Vocabulary Cartoons (Easy Memory Techniques).

**Class Rules**

1. Everyone is asked to respect others.
2. Students should be in their seats when the bell rings.
3. Students should their raise hand to respond/ask questions.
4. Dress code must be observed.
5. Homework should be handed in at the beginning of class.
6. Students should bring textbook, notebook, pencil, and calculator everyday.
7. Students can make-up work within three days of being absent.

**Grade Scale-Students grade is calculated by total points from evaluation.**

- A 90-100
- B 80-89
- C 70-79
- D 60-69
- F 0-59

5-subject spiral notebook, pencil, and calculator is needed for class.