

## **Geometry Syllabus**

### **Course Overview**

A course designed to (1) introduce students to points, lines, planes, and angles, (2) explore accuracy of measurements, (3) introduce concept of congruency, (4) apply inductive and deductive reasoning and prove theorems, (5) identify and classify triangles, (6) introduce bisectors, medians, and altitudes of triangles, (7) teach properties of various quadrilaterals and circles, (8) explore reflections, translations, rotations, and dilation, (9) solve for inscribed and circumscribed polygons, tangents, and secants, (10) calculate measures in two and three dimensions, and (11) explore geometric probability.

### **Course Responsibilities**

Students are expected to participate in the classroom practice of math. This may involve chalkboard, oral, and written assignments during the class period. Students are to maintain a positive attitude and complete their work in a neat, organized, and punctual fashion. Students will have daily homework assignments. Parental supervision to make sure that homework is completed is encouraged.

### **Course Objectives**

The objective of this course is to prepare students for upper level Geometry through the learning of everyday, practical mathematic applications.

### **Course Curriculum**

Glencoe McGraw-Hill. Geometry, 2004

### **Supplies Needed**

- One three-ring binder with a section dedicated exclusively to Math
- Loose leaf notebook paper for homework and daily notes
- Two number two pencils with erasers
- Textbook
- Protractor
- Compass
- 12" ruler with inch and centimeter markings
- Grid/graph paper
- Graphing Calculator (TI-83 Recommended)

### **Course Requirements**

Students will have daily assignments from the Glencoe textbook. The completion of these assignments is to be neat, organized, and on time. Failure to meet these requirements will result in a grade of a '0' for that particular day or that particular assignment. Quizzes will be given periodically. Every third Tuesday there will be a test given covering the relevant chapter. Every semester there will be a cumulative exam given. The binder and necessary tools will be brought to class everyday, as notes will be taken daily.

## **Homework**

It is each student's responsibility to record assignments and to complete assignments on time. A student will receive a '0' for an incomplete or missing assignment. Students may turn the assignment in one day late for a 50.

## **Class Rules**

- Students will raise their hands to speak in the classroom.
- Students will ask permission to leave their seats for any reason.
- Students will maintain honesty and integrity in the classroom. Cheating will not be tolerated.
- Bathroom breaks are **not** allowed during class. Only in emergencies will students be allowed out of class.

## **Grading Scale**

Homework/Class work	25	<b>A</b> 93-100
Quizzes	20	<b>B</b> 83-92
Tests	40	<b>C</b> 75-82
Prompt & Prepared	15	<b>D</b> 70-74
		<b>F</b> 0-69

## **Online Study Tool Resources:**

- [www.geometryonline.com/extra\\_examples](http://www.geometryonline.com/extra_examples)
- [www.geometryonline.com/self\\_check\\_quiz](http://www.geometryonline.com/self_check_quiz)
- [www.geometryonline.com/vocabulary\\_review](http://www.geometryonline.com/vocabulary_review)
- [www.geometryonline.com/chapter\\_test](http://www.geometryonline.com/chapter_test)
- [www.geometryonline.com/standardized\\_test\\_practice](http://www.geometryonline.com/standardized_test_practice)

## **Course Outline**

### **First Semester**

## **First 9 Weeks (1<sup>st</sup> Quarter)**

Week 1-2: **Chapter 1: Points, Lines, Planes and Angles**  
Chapter 1 Test: September 13

Week 3-5: **Chapter 2: Reasoning Proof**  
Chapter 2 Test: October 4

Week 6-8: **Chapter 3: Parallel and Perpendicular Lines**  
Chapter 3 Test: October 25

Week 9-11: **Chapter 4: Congruent Triangles**

## **Second 9 Weeks (2<sup>nd</sup> Quarter)**

Week 12-14: Chapter 4 Test: November 15  
**Chapter 5: Relationships in Triangles**

Week 15-17: Chapter 5 Test: December 6  
**Chapter 6: Proportions and Similarities**

Week 18: Semester Exam: Chapters 1-6  
January 10  
**Chapter 7: Right Triangles and Trigonometry**

## **SECOND SEMESTER:**

### **Third 9 Weeks (3<sup>rd</sup> Quarter)**

Week 19-20: **Chapter 7: (cont'd)**

Week 21-23: Chapter 7 Test: January 31  
**Chapter 8: Quadrilaterals**

Week 24-26: Chapter 8 Test: February 21  
**Chapter 9: Transformations**

Week 27-29: Chapter 9 Test: March 20  
**Chapter 10: Circles**

### **Fourth 9 Weeks (4<sup>th</sup> Quarter)**

Week 30-32: Chapter 10 Test: April 10  
**Chapter 11: Areas of Polygons & Circles**

Week 33: Chapter 11 Test: May 1  
**Chapter 12: Surface Area**

**Week 34: Chapter 12 Test: May 8**  
**Chapter 13: Volume**

**Week 35: Chapter 13 Test: May 15**  
**Chapters 1-13 Review**

**Week 36: Final Exam: May 22**