

## **2018 Honors Geometry Summer Course Outline**

Welcome to Geometry class!

Course Materials:

- Textbook: Geometry, McDougal Little
  - ISBN-10: 395977274
- Notebook + Writing Utensil

Course Description:

This course will cover the study of plane Euclidean, solid, and coordinate geometry. We will start with a discussion of the fundamental concepts of geometry, which include the properties of points, lines, planes, and angles. Then we will cover inductive and deductive reasoning and how theorems are proved. During the course, the students will gain experience both in proving geometric theorems as well as in applying the theorems to numerical applications. Students will learn the properties of parallel lines and planes, triangles (including congruence, similarity, and inequality relationships), quadrilaterals, and circles. In addition, students will learn how to calculate the areas of plane figures and the areas and volumes of solids. To help the student's development their problem solving ability, they will be given daily quizzes and homework and weekly test and projects.

This course consists of a 6 week program, Monday-Friday, for four hours each day. Students will have 3-4 5-9 minute breaks each session.

Course Outline

All 13 chapters of the textbook will be covered during this 6 week course:

1. Points, Lines, Planes, and Angles.
2. Deductive Reasoning
3. Parallel Lines and Planes
4. Congruent Triangles
5. Quadrilaterals
6. Inequalities in Geometry
7. Similar Polygons
8. Right Triangles
9. Circles
10. Constructions and Loci
11. Areas of Plane Figures
12. Areas and Volumes of Solids
13. Coordinate Geometry
14. Transformations

### Grading Policy

Student progress will be assessed each day.

Tests will be given at the end of each chapter/unit and will count for 60% of the grade.

Quizzes will be given on days there are no tests for 35% of the grade.

- All student work on tests and quizzes must be shown to receive credit. Partial credit will be given for correct work
- All assessments will be made up on the day a student returns from an absence

Homework will be checked daily for 5% of the grade

- Homework is graded on a complete / incomplete basis.
- Each homework should be labeled with the correct assignment and date
- Late homework will only be accepted if a student is returning from an absence.