



GEOMETRY Honors

Insert Teacher Name

Insert Room Number

Insert Full Year/Semester

Insert Period

Insert Email Address

COURSE DESCRIPTION

The fundamental purpose of the course in Geometry is to formalize and extend students' geometric experiences from the middle grades. Students explore more complex geometric situations and deepen their explanations of geometric relationships, moving towards formal mathematical arguments. Important differences exist between this Geometry course and the historical approach taken in Geometry classes. For example, transformations are emphasized early in this course. Close attention should be paid to the introductory content for the Geometry conceptual category found in the high school CCSS. The Mathematical Practice Standards apply throughout each course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations.

COURSE OBJECTIVES

Students should:

- Experiment with transformations in the plane.
- Use coordinates to prove simple geometric theorems algebraically.
- Prove geometric theorems.
- Understand similarity in terms of similarity transformations.
- Explore properties of similarity and prove theorems involving similarity.
- Define trigonometric ratios and solve problems involving right triangles.
- Experiment with transformations in the plane.
- Understand and apply theorems about circles.
- Explain volume formulas and use them to solve problems.
- Visualize relationships between two-dimensional and three-dimensional objects.
- Apply geometric concepts in modeling situations.

UNITS OF STUDY

- Parallel Lines and Angles
- Triangles
- Transformations (Triangle Congruence & Similarity)
- Trigonometry
- Circles
- Polygons and Quadrilaterals
- Surface Area and Volume

COURSE POLICIES AND REQUIREMENTS

GRADING

Cumulative/In-Progress Grade:

- 10% of the grade will be based on formative assessments, homework completion, or behavior (see FPS BOE [Policy 6154.4R](#))
- 90% will be based on assessments
Individual Tests, Projects, Mid-Chapter Tests, Summative Quizzes, etc.

End-of-the-Year Grade:

- 80% of the overall course grade will reflect the student's mastery of course content and skills during the school year through the Cumulative/In-Progress Grade.
- 20% of the End-of-the-Year course grade will be based on the Final Assessment.

Insert Additional Grading Information Here

MATERIALS

Insert Course Materials Here (ie. Textbook, Binder, Calculator, Highlighters)

EXPECTATIONS OF STUDENTS

Insert Course Expectations Here

EXTRA HELP

Insert Course Expectations Here

Insert Additional Information Here