



Course Description

In Geometry Honors, you will use the algebraic skills learned in Algebra 1 and apply them towards geometric skills. As with Geometry, Geometry Honors focuses on the properties and applications of common geometric figures in both two- and three-dimensions such as points, lines, planes, polygons, circles, prisms, pyramids, cylinders, cones, and spheres. However, in Geometry Honors, you will work on more complex problems and spend more time delving into logical reasonings and proofs.

The science of mathematics is humanity's way of seeking to quantify and describe the vast and infinite creation of God using mathematical symbols, operations, and principles; and its purpose is to seek to explain, model and solve real world situations. In this course, you will apply both inductive and deductive reasoning as you look for patterns and create proofs; as well as applying formulas for calculating distance, midpoint, perimeter, circumference, area, and volume of various geometric figures.

This is a yearlong course consisting of 13 units. Upon successful completion students will receive 1 credit towards high school graduation.

Course Overview

Semester 1 Units:

1. Basics of Geometry
7. Reasoning and Proofs
3. Parallel and Perpendicular Lines
4. Transformations
5. Congruent Triangles

Semester 2 Units:

6. Relationships Within Triangles
 7. Quadrilaterals and Other Polygons
 8. Similarity
 9. Right Triangles and Trigonometry
 10. Circles
 11. Circumference and Area
 12. Surface Area and Volume
 13. Probability
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Methods of Evaluation

Students will demonstrate mastery through the following formative and summative assessments:

- 40% Assignments
- 10% Participation
- 10% Quizzes
- 25% Final Assessment
- 15% Unit Tests

Additional Course Information

Detailed information regarding OC Online policies on proctored final exams, grading policy, late/missing assignment policy, weekly live classes, course expectations, and additional school policies can be found on the website.