

Course Description
Basic Geometry

Description:

This course will cover geometric terms and the mathematical study of two-dimensional shapes and objects. Students learn basic theorems and proofs to develop an understanding of Geometry. The following topics will be covered: lines and angles, triangles, polygons, perimeter and area, ratio and proportion, parts of circles, chords, secants, tangents, prisms, right circular cylinders, pyramids, cones, spheres, slope, and equations of lines. Pre-Requisites: Grade of “C” or better in Algebra I. This is a one-year course, 5 credits each semester will be awarded with a passing grade.

Learning Objectives:

Students will have an understanding of the following concepts:

Points, Lines, and Angles in the Plane
Using Proofs
Parallel Lines and Transversals
Using Algebra: Lines in the Coordinate Plane
Triangles and Quadrilaterals
Congruent Triangles and Transformations
Proportion and Similarity
The Pythagorean Theorem
Perimeter and Area
Circles and Spheres
Solid Geometric Figures and Their Measures
Geometry and Imagination

Methods of Assessment:

May include but not be limited to:

- *Periodic review of work by independent study teacher
- *Parent facilitator observation
- *Graded assignments
- *Examinations

Curriculum:

Textbook and Workbook: Geometry, AGS

Key Assignments:

Unit by Unit problem Sets
End of Chapter Tests
Final Examination

Grading Scale:

30%
50%
20%

