

Brandywine Heights Area School District
200 West Weis Street, Tipton, PA
Course Syllabus for Geometry
2009-2010

Overview:

This class is a standard high school level geometry course. It is designed for students who have previously been introduced to the basic skills of algebra and arithmetic. Several of these necessary algebra and arithmetic skills will be used throughout this course. Students will work with several different types of geometric concepts such as inductive and deductive reasoning, formal presentations of proofs, coordinate and transformational geometry, measurements, and the investigating of geometric figures. This course is designed to be very hands-on and student-oriented. Students will be encouraged to make connections between math concepts and real world applications to help them realize the importance of mathematics throughout their lives.

Textbook(s) and Other Resources used:

Geometry Glencoe, McGraw Hill, 2012
TI-83 Plus calculator (provided by school)
TI- 30X scientific calculator (provided by school)

Outline of Content:

First Quarter
Foundations for Geometry
Geometric Reasoning

Second Quarter
Parallel and Perpendicular Line
Triangle Congruence

Third Quarter
Properties and Attributes of Triangles
Polygons and Quadrilaterals
Similarity

Fourth Quarter
Extending Perimeter, Circumference, and Area
Spatial Reasoning
Circles

Midterm and Final Examinations:

Midterm and final examinations will be given at the appropriate time throughout the year. These examinations will each count as 10% of a student's final grade, as quarter grades will make up the remaining 80%.