

**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

Holt, Rinehart and Winston, 2007  
TI-83 Plus calculator (provided by school)  
TI- 30X scientific calculator (provided by school)  
Various mathematical manipulatives

**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%.