

Northern York County School District

Curriculum Overview

Course: 1.06 Academic Geometry Grade Level: 9/10		
Course Description:		
This course is for those students who have success grade. Geometry is the study of logical reasoning blocks of geometric figures, and as the basic mod topics in plane geometry including Geometric Pro formal proofs and problem-solving involving alge students for the demands of mathematics-related	g. Points, lines, and planes are used as the building dels from which to reason. The course will include operties & Reasoning with emphasis placed on bra skills. A goal of this course is to prepare	
Course Objectives:		
radicals, and factoring)	skills neepts including lines & angles, parallel & ilarity, and right triangle trigonometry ough geometric topics (with focus on fractions, advance to Academic Algebra II, Trigonometry,	
Foundational Units:		
 Basics of Geometry Reasoning & Proofs Parallel & Perpendicular Lines Congruent Triangles Relationships within Triangles Similarity Right Triangles & Trigonometry Circles 		

• Surface Area & Volume

CC.2.3.HS.A.3	Verify and apply geometric theorems as they relate to geometric figures.	
CC.2.3.HS.A.13	Analyze relationships between two-dimensional and three-dimensional objects.	
CC.2.3.HS.A.14	Apply geometric concepts to model and solve real world problems	
CC.2.2.HS.D.9	Use reasoning to solve equations and justify the solution method.	
Concepts:		Competencies:
 Congruent Fig Similarity Properties of T Properties of I Properties of I 	Perpendicular Lines gures Triangles Polygons	 Students will be able to Apply algebraic skills to solve geometric concepts Apply the laws of logic to problem solving Write a geometric proof Apply the properties of parallel lines Identify and use congruent figures Use and apply the properties of similarity Use right triangles and trigonometric functions to solve problems Calculate areas, volumes, and surface areas
Learning Activities:		Performance Tasks:
 Collaborative Work/Activities Guided Notes Online Formative Assessments/Activities Homework Practice Guided Practice Independent Practice Warm-up Problems/Activities 		 Unit Assessments Presentations Projects
Other Assessment M	easures: Homework, Classwo	 ork, Enrichment Projects
Textbook/Primary Re	esource: Ron Larson & Laurie	Boswell, Geometry, Big Ideas Learning