Norwood Public Schools
Curriculum Overview
Geometry   222/225

Description

Geometry is the study of points, lines, planes, angles, two-dimensional shapes and three-dimensional objects. Students discover facts about them, learn definitions, and practice using formulas to compute lengths, areas and volumes. Many classroom demonstrations and homework problems use the skills learned in Algebra 1, and prepare students to take Algebra 2. Students will study topics such as properties of lines, angles, triangles, polygons, and circles. Students will also learn about surface area, volume, similarity, and trigonometry. Many of the topics discussed will incorporate real world applications to enrich the content. Both classes (222 or 225) are typically taken by sophomores.

Learning Experiences

Students will experience learning through many formats in addition to routine classroom experiences. Both levels are more algebra based than the honors level classes. Students will incorporate basic algebraic skills into the problem solving process. Students will use Geometer's Sketchpad to investigate various topics for discovery and apply classroom concepts to some problems. These classes meet six times in a seven day cycle.

Content Outline:

Term 1	Chapter 1	Basics of Geometry
	Chapter 3	Perpendicular and Parallel Lines
	Chapter 4	Congruent Triangles
Term 2	Chapter 8	Similarity
	Chapter 5	Properties of Triangles
	Chapter 9	Right Triangles and Trigonometry
	MIDYEAR EXAM	
Term 3	Chapter 6	Quadrilaterals
	Chapter 10	Circles
Term 4	Chapter 12	Surface Area and Volume
	Supplemental	Probability

Resources Used

Textbook used: Geometry: Reasoning, Measuring, Applying.
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Geometer's Sketchpad software; Geometry: Plane & Simple, 1989, Creative Publications