

St. Luke's Lutheran School

Course Title: Geometry

Instructor: Kathleen Cancio

Textbook: Geometry, McDougal Littell

Materials: TI-82, TI-83 or TI-84 (Graphing Calculators), Pencils for all graded material, College ruled notebook paper, compass, protractor, ruler.

About the Teacher: I received a bachelor's degree in Business from Strayer University and a Master's in Education from Marymount University. For the past four years I have served as the Math Support Specialist for the Upper School Learning Center at Highland in Warrenton, VA, and also taught middle school Algebra. In the Learning Center I was responsible for testing, tutoring, goal setting, planning remediation, and the creation of individual learning strategies. This is my 1st year at St. Luke's Lutheran School.

Contact and students help information: Math room open every day during the lunch hour, class time, and upon request I can arrange a scheduled time.

Email: kcancio@stlukeslutherschool.org or canciok@aol.com

Home: 540-341-3408

Homework: Homework is for student practice, self-evaluation, and challenging material. Students are expected to complete all homework assignments. If a student is having difficulty, they may call me, see me at lunch, but show me an attempt at completing the problem. Class participation and completion of homework is taken into consideration for the overall grade.

Quizzes: are given daily, and one will be deleted each reporting period. Students are given the area to study before hand. It is always on previous material and not new content.

Tests: are administered at the end of each chapter.

Projects: are assigned approximately every six weeks and are to reinforce geometry concepts. They are valued as a quiz grade.

Weighting:

Homework	20%
Quizzes	25%
Tests	35%
Midterm/Final	20%

Course content:

Basics of Geometry: patterns and inductive reasoning, basic definitions
Reasoning and Proofs which will extend to the rest of the coursework
Constructions
Perpendicular and Parallel Lines
Congruent Triangles
Properties of Triangles
Quadrilateral Properties or proofs
Transformations: reflections, rotations, translations
Similarity: ratio and proportion, similar polygons
Right Triangles and Trigonometry: similar polygons
Circles: Tangents, arcs and chords, inscribed angles

Method of Delivery: Lecture, notes, discussion questions, cooperative learning, and field trips.

Learning Goals (i.e. what each student should know and be able to do by the end of this course.):

- Know the meaning of Geometric terms and how to utilize these terms in relations to figures and solving equations and inequalities.
- Know how to justify their reasoning, knowledge, and statements of geometry by using proofs.
- Know theorems and postulates of geometric figures to solve real life problems, as well as write proofs.
- Find area, perimeter, volume, surface area, and circumference of geometric figures.
- Know how to identify and utilize three basic rigid transformations.
- Be able to write and solve similarity statements using proportions.
- Be able to construct geometric figures using a pencil, ruler, and compass.

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