



ROCORI Schools

# Geometry

Grade(s): 10 - 12

**Mrs. Court**

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## Course Description:

In Geometry, you will develop mathematical concepts of arithmetic and Algebra while studying two and three-dimensional relationships. We will study points, lines, planes, circles, triangles, polygons, and solid figures. In this course, we will also take a detailed look into the meaning and nature of deductive proof.

**Power Standards:** At the completion of this course, you will be able to:

- Construct logical arguments and write proofs of theorems and other results in geometry.
- Apply properties of parallel and perpendicular lines to solve problems and logically justify results.
- Apply properties of angles, including corresponding, exterior, interior, vertical, complementary and supplementary angles, to solve problems.
- Apply the Pythagorean Theorem and its converse to solve problems.
- Apply properties of congruent and similar figures to solve problems.
- Use properties of polygons – including quadrilaterals and regular polygons – to define them, classify them, and solve problems.
- Apply properties of a circle to solve problems.
- Apply the trigonometric ratios sine, cosine, and tangent to solve problems, such as determining lengths in right triangles.
- Determine the surface area and volume of pyramids, cones, and spheres.

## Course Outline:

Chapter 1 Basics of Geometry  
Chapter 2 Reasoning and Proof  
Chapter 3 Perpendicular and Parallel Lines  
Chapter 4 Congruent Triangles  
Chapter 5 Properties of Triangles  
Chapter 6 Quadrilaterals  
Chapter 7 Transformations  
Chapter 8 Similarity  
Chapter 9 Right Triangles and Trigonometry  
Chapter 10 Circles  
Chapter 11 Areas of Polygons and Circles  
Chapter 12 Surface Area and Volume  
Chapter 13 Volume

**Textbook: McDougal Littell Geometry Copyright 2001**

**Link for accessing Online Textbook:**

<http://www.nexuslearning.net/books/ml-geometry/>

**Materials Required:**

Book Cover

Calculator

3 Ring Binder or Folder

3 x 5 or 4 x 6 **Spiral Bound** Note Cards

Notebook

Pencils

Compass

Ruler

Protractor

**GRADING SCALE:**

The grading scale for this class is indicated below:

100% - 94% -----A

76% - 73%-----C

93% - 90%-----A-

72% - 70%-----C-

89% - 87%-----B+

69% - 67%-----D+

86% - 83%-----B

66% - 63%-----D

82% - 80%-----B-

62% - 60%-----D-

79% - 77%-----C+

59% - Below----F

**NOTE: The computer-grading program I use does not round up!**

**GRADING SUMMARY:**

**Your grade for the first trimester will be based on three different grading weights:**

Tests / Quizzes are worth **67%** of your grade

Daily assignments are worth **33%** of your grade

**Your FINAL GRADE for the course will then be based on the following weights:**

Semester 2 final grade: **47%**

Semester 3 final grade: **47%**

Final Exam: **6%**

**Late Work Policy:** All of my homework is out of 5 points. **If a student is absent:** I give the student 2 days to make up homework for each day that they miss class. It is the student's responsibility to ask what they missed when they were absent. My notes are available online.

**If a student does not have an assignment done on time:** I accept late work, but you will only receive partial credit.

**Attendance Procedures:**

When a student is absent from school, they have 2 days to make up homework for each day that they miss class. **It is the student's responsibility to ask what they missed when they were absent.** If they missed a test or quiz, they will have to schedule a time before or after school to make up the test. If they miss a new lesson, they need to access them on my website. They need to read through the notes and the section in the book. Then they should attempt the homework, and they can come in and get help with what they don't understand.

**Student Expectations / Discipline Procedures:**

*This class will follow the guidelines of the RMS School Wide Management Plan. Students who are not following the expectations will be given a verbal warning for the first offense. The second offense will result in a private conversation between the student and teacher. A third offense will require the student to complete a Reflective Improvement Plan, consultation with the teacher, and a phone call home. Further offenses will be referred to school administration.*