

# Geometry

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## Course Overview

*Geometry* describes one aspect of the inductive/deductive reasoning side of mathematics. This course develops a structured mathematical system through the through the deductive development of relationships in the plane and space developed intuitively in previous years. Students will study parallel and perpendicular lines, angle measure in triangle, direct and indirect triangles, transformations, the Pythagorean Theorem, geometric constructions, coordinate geometry, and surface area and volume of solids.

## Course Planner

### *Fall Semester*

Chapter 1: Tools of Geometry  
Chapter 2: Reasoning and Proof  
3: Parallel and Perpendicular Lines  
Chapter 4: Congruent Triangles  
Chapter 5: Relationships in Triangles  
Chapter 6: Quadrilaterals

### *Spring Semester*

Chapter 7: Proportions and Similarity  
Chapter 8: Right Triangles and Trigonometry  
Chapter 9: Transformations and Symmetry  
Chapter 10: Circles  
Chapter 11: Areas of Polygons and Circles  
Chapter 12: Extending Surface Area and Volume

## Student Evaluation

Quarter grades are determined using the following categories:

- Homework (15 percent)
- Quizzes (25 percent)
- Test (60 percent)

Homework will be checked for completion and accuracy. Homework is to be taken seriously. Each quiz score is determined based on the number of problems and evaluates student's homework habits. Tests will mostly be response based questions with a few multiple choice questions.

## Classroom Materials

Students will need the following items for this class:

- 3 Ring Binder w/ 5 section dividers
- Pencils & Red Pens
- Loose Leaf Paper & Graphing Paper
- Safety compass
- Protractor

## Calculator

Graphing Calculators are not allowed in this class. Standard calculators may be used but only with teacher permission. The teacher holds the right to determine if a calculator will be allowed on any quiz/test.

TI-30

## Resources

*Primary Textbook*      *Geometry*. Glencoe: The McGraw-Hill Companies, 2010

## Credit

One-half credit will be awarded for each successfully completed semester.

## Tuition and Fees

Tuition is \$450 per year for the course, payable in cash only. Payments may be made annually, semi-annually, or monthly. See contract for details.

