

GEOMETRY COURSE SYLLABUS

COURSE:	Geometry
INSTRUCTOR:	Ms. Jessie Fowls jessie.fowls@saints.org
TEXTBOOK:	<i>Geometry</i> Glencoe/McGraw-Hill, 2007
REQUIRED SUPPLIES:	Lined Paper, Graph Paper, Pencils, Erasers, Protractor, Ruler, Compass, Colored Pencils, Scientific Calculator or TI-83+ or 84+
PREREQUISITE:	A grade of C or higher in Algebra 1

COURSE PURPOSE:

This course offers a hands-on approach to learning. Students will learn the concepts of geometry while learning to think logically. Topics include: perimeter, area, graphing equations, proofs, problem solving, congruence triangles, spatial visualization, polygons, trigonometry and three-dimensional shapes.

COURSE DESCRIPTION

A. Course Outcomes

This course is designed to help students:

1. Begin identifying patterns and use basic figures and terms of Geometry. They will write conditional statements and their converses.
2. Find the distance between two numbers on a number line and apply the properties of real numbers. They will identify a congruent segment which leads to graphing ordered pairs on a coordinate plane, including finding the midpoint, given the endpoints of a segment.
3. Name, identify, measure, draw and classify angles. They will also identify and use adjacent, complimentary, supplementary, congruent, vertical and linear pairs of angles, as well as perpendicular lines and segments.
4. Examine the relationships between pairs of interior and exterior and corresponding angles formed by two parallel lines and a transversal. They will prove lines parallel and identify parallel and perpendicular lines through slope.
5. Classify triangles by their sides and angles. They will identify and use SSS, SAS, ASA, and AAS postulates and theorems.
6. Continue to identify and use part of triangles, including angle bisectors and isosceles triangles. They will test for congruence and apply the Pythagorean Theorem, its converse, and find the distance between two points on the coordinate plane.
7. Learn to recognize and write inequality statements of segment and angle measures with an emphasis on the relationship between side and angle measure.
8. Identify and use properties of quadrilaterals, parallelograms, rectangles, rhombi, squares and trapezoids.
9. Use ratios and properties to solve problems in similar polygons and triangles.
10. Calculate the areas of triangles, trapezoids, and regular polygons. They will identify line and rotational symmetry.
11. Identify and use parts of a circle, as well as find the circumference and of a circle.

Textbook Website: www.geometryonline.com

Online Student Edition Access Code:

FB5B107D89

12. Find the lateral and surface area and volumes of prisms, cylinders, cones, pyramids, and spheres.
13. Multiplying, dividing and simplifying radical expressions, and apply them to 45° - 45° - 90° and 30° - 60° - 90° triangles. They will also use the sine, cosine, and tangent ratios to solve problems.
14. Identify and use properties of angles and tangents to circles, and find measures of arcs and angles formed by secants, tangents, and chords.

GRADE DESCRIPTION

Semester grades are cumulative and will be calculated as follows:

Tests & Projects	60%
Daily Assignments, Quizzes	25%
Semester Exam	15%

ADDITIONAL INFORMATION

All homework and notes must be done in **pencil** on loose-leaf paper or in a spiral notebook (*turned in without spiral confetti*). The scoring for daily assignments will be on a 10 point scale and will be graded in class, checked for completion, or graded by me. The grades given for the majority of the assignments will be as follows:

<u>Incorrect</u>	<u>Points Awarded (out of 10)</u>
0-1	10
2-3	9
4-6	8
7-9	7
10+	Redo/correct for credit

Late work will be accepted up to two class periods after the original due date. The student will have the opportunity to earn 80% after one late reminder. After the second reminder, the student is still responsible for turning in the completed assignment but will earn a 0%.

Class Expectations

1. Encourage LEARNING.
2. RESPECT yourself, adults, and your classmates.
3. Be RESPONSIBLE.
4. Be ACCOUNTABLE.

The Obvious requirements for success

1. Cheating is absolutely not acceptable and will guarantee a zero on the assignment or test along with a trip to the office for administrative consequences.
2. Be on time and be prepared.
3. Complete assignments neatly and on time.
4. Don't wait to ask for help - I'm here to help you succeed.

Consequences for negative behavior include

1. Behavioral reminder, loss of privilege, and/or work detail.
2. Sent out of class & student/teacher conference.
3. Parent notification.
4. Sent to the office.

Attendance & Tardiness

Absences will affect your performance in this class **more than anything else**. It is your responsibility to make up any work you missed. You will have up to the number of class days you were gone to make up your work for full credit for excused absences. If you participate in sports or other school related events that cause you to be absent from class, your homework must be turned in **before** you leave school.

Tardiness: I expect all students to be in class and seated when the bell rings. If you need to visit your locker after class has started, you will be marked tardy. Excessive tardiness will result in a student-teacher conference and parent notification.

School Policies

Students are subject to all academic policies of the school as printed in the Student Handbook. Furthermore, it is each student’s responsibility to read and follow all academic policies of the school.

- ★ Students are expected to come prepared to class with all their necessary, required supplies. If a student does not come prepared, this will be noted and may affect his/her grade.
- ★ Cell phone usage in my class is not allowed, unless I give permission. All devices, including ipods and earbuds, are not to be seen, heard, or ‘felt’ during class. If I spot a device in use, it will be mine for the remainder of the class and potentially the day. This is especially important to note when tempted to use your cell phone’s calculator. That is not allowed.
- ★ All backpacks are to be placed completely under your seat/desk, up against the wall, or somewhere else, entirely out of the aisles.
- ★ Feel free to contact me via email throughout the year. However, I will only respond to student emails that are written properly and respectfully. Emails should include at the very least, the following components: Salutation, capitalization where necessary, proper use of English, and a closing.



Sign and return to Ms. Fowls

Student Name: _____

Geometry

We have read and discussed the class details and expectations. We agree that they will be followed and supported.

Student Signature

Parent/Guardian Signature

Date

Date