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### **Syllabus Disclaimer**

A syllabus is not a contract between teacher and student, but rather a guide to course procedures on attendance, participation, requirements, grading, goals and objectives. The mathematics department reserves the right to amend the syllabus when necessary to best fulfill the course objectives. Students will be duly notified.

### **Course Description**

Geometry is the second course in a sequence of three required high school courses designed to ensure career and college readiness. The course represents a discrete study of geometry with correlated statistics applications.

The standards in the three-course high school sequence specify the mathematics that all students should study in order to be college and career ready. Additional mathematics content is provided in fourth credit courses and advanced courses including pre-calculus, calculus, advanced statistics, discrete mathematics, and mathematics of finance courses. High school course content standards are listed by conceptual categories including Number and Quantity, Algebra, Functions, Geometry, and Statistics and Probability. Conceptual categories portray a coherent view of high school mathematics content; a student's work with functions, for example, crosses a number of traditional course boundaries, potentially up through and including calculus. Standards for Mathematical Practice provide the foundation for instruction and assessment.

The course requires that students:

- Experiment with transformations in the plane
- Understand congruence in terms of rigid motions
- Prove geometric theorems
- Make geometric constructions
- Understand similarity in terms of similarity transformations
- Prove theorems involving similarity
- Define trigonometric ratios and solve problems involving right triangles
- Understand and apply theorems about circles
- Find arc lengths and areas of sectors of circles
- Translate between the geometric description and the equation for a conic section
- Use coordinates to prove simple geometric theorems algebraically
- Explain volume formulas and use them to solve problems
- Visualize relationships between two-dimensional and three-dimensional objects
- Apply geometric concepts in modeling situations
- Understand independence and conditional probability and use them to interpret data
- Use the rules of probability to compute probabilities of compound events in a uniform probability model

### **Course Prerequisite**

Successful completion of GSE Algebra 1

### **GSE Standards**

The course standards can be found at

<https://www.georgiastandards.org/Georgia-Standards/Pages/Math-9-12.aspx> .

**GSE Geometry Units**

Unit 1: Transformations in the Coordinate Plane

Unit 2: Similarity, Congruence, and Proofs

Unit 3: Right Triangle Trigonometry

Unit 4: Circles and Volume

Unit 5: Geometric and Algebraic Connections

Unit 6: Applications of Probability

**Evaluation of Student Work**

Benchmark	20%	<i>Grading Scale</i>	
Daily	20%	A	90 - 100
Quizzes	25%	B	80 - 89
Tests	<u>35%</u>	C	70 - 79
	100%	F	Below 70

**Availability for Extra Help**

If you are having difficulty understanding material, please do not wait until just before a test to come in for assistance. I am available for tutoring afterschool from 3:30 to 4:00. Please check with me prior to staying after school so I can verify that I do not have a previously scheduled meeting. Your time is valuable, and I do not want you to waste it by waiting for me when I have a meeting to attend. Other math teachers also do after school tutoring -- schedule and location TBD.

**Supplies/Notebook**

One three-ring binder, pencils, and notebook paper, are needed for this class. Students will also need to check out a Chromebook from Mrs. Thompson in the Media Center.

**Makeup Work and Attendance**

Attendance is an extremely important part of class. Your success depends on your being in class every day. It is the student's responsibility to get the notes and assignments that are missed when absent. An excused absence does not excuse the work. If you are absent, you will follow the TCCHS policy regarding makeup assignments.

**Recovery Policy for the Classroom**

Assessments are used to gauge the level of mastery within a given time frame. For this reason, if a major summative assessment (test) grade is higher than its corresponding formative assessment (quiz), the test grade can replace the quiz grade because it would demonstrate an increase in the level of mastery within the allowable time frame.

## Infinite Campus

The teacher will update grades in Infinite Campus weekly. Infinite Campus is a software program that links parents and teachers by allowing parents to access their student's grade and attendance. All parents are encouraged to register for this service. Additional information is available in the Guidance Office.



## REMIND instructions

If you would like to get reminders from **Mrs. Smith's**:

- Send a **text** message to: **81010**
- In the message box type: @sasmithgeo

## Classroom Rules

Rules are necessary whenever a group of people work together. Knowing what is expected of you should make class easier for everyone. You are expected to know all of this information after the first day of school. Please refer to the *Student Handbook* for additional rules and regulations.

1. Be in your assigned seat and begin working on the Bell Ringer *before* the tardy bell rings.
2. Bring your notebook, paper, and pencils to class daily.
3. Students are expected to conduct themselves in an appropriate manner at all times as outlined in the TCCHS Student's Handbook. Discipline for unacceptable behavior and tardies will be dealt with as described in the *Student Handbook*.
4. TCCHS does not permit students to leave class during the first 10 minutes or the last 10 minutes of each class period. Try to take care of all personal needs before coming to class. Be sure to visit the restroom and water fountain between classes.
5. Do *not* adjust or touch the air-conditioning thermostat.
6. Do *not* touch the teacher's desk, papers, or personal belongings.
7. Respect the rights and property of others. Refrain from the following: verbal and physical abuse; vandalism; inappropriate touching; disrupting the learning of other students; taking the property of others; talking during announcements, while the teacher is talking, or when someone comes to the door.
8. *Do not cheat*. Anyone caught cheating in any way at any time will receive a zero on that activity or assignment.
9. Cell phones and other electronic devices are permitted on the premises, but should not be out during classroom instruction. Any student caught using an electronic device during class time without permission will have their device confiscated.

Consequences for failing to follow class rules will result in a phone call to your parents, a teacher detention, and ultimately a referral to an administrator.