

# Geometry with Data Analysis

**Sarah Ellen Anders, Instructor**  
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**Course Information:** The Geometry course builds on previous math concepts and increases students' knowledge of shapes and their properties through geometry-based applications, many of which are observable in aspects of everyday life. This knowledge helps develop visual and spatial sense and strong reasoning skills. The Geometry course requires students to make conjectures and to use reasoning to validate or negate these conjectures. The use of proofs and constructions is a valuable tool that enhances reasoning skills and enables students to better understand more complex mathematical concepts. Because of its importance, this Euclidean geometry course is required of all students receiving an Alabama High School Diploma. Many skills that will help students to be successful in the ACT and future courses will be emphasized.

**Technology:** Technology is used to enhance the students' mathematical experience. A calculator, Savvas Realize (online textbook), MathXL (online assignments), and other Internet-based instructional resources will be used in this course.

## **Needed supplies:**

- 3-ring binder, notebook paper, pencil or mechanical pencil, and a scientific calculator (If you are a serious math student and need to buy a new calculator, the TI 84 C Plus CE is a very good calculator. However, you may purchase a really good TI 30XIIS for around \$10.)
- Students are also encouraged to purchase a school planner if they have not already!

**Grading Policy:** Students may be evaluated with quizzes, major tests, projects, classroom participation, and assignments. On assignment checks, sometimes credit is given for problems attempted, and sometimes it will be checked for accuracy. Each day assignments not finished in class will be considered homework. Assignments must be completed and turned in on time to receive *full credit*. There will be semester exams. Make certain you know your password to PowerSchool and keep up with your grades!

## **Weighted categories:**

Major Grades: 60%

Minor Grades: 40%

## **Grading Calculations for Semesters and Year:**

1st 9 Weeks-40%

2nd 9 Weeks- 40%

1st semester Exam- 20%

1st Semester Average- calculated from 1st, 2nd, and 1st semester exam

3rd 9 weeks- 40%

4th 9 weeks- 40%

2nd semester Exam- 20%

2nd Semester Average- calculated from 3rd, 4th, and 2nd semester exam

## **FINAL YEARLY AVERAGE**

1st Semester Average- 50%

2nd Semester Average- 50%

**Parent Communication:** Parents may email me or call me at HHS and leave a message for me to return your call. Parents, please fill out the form given to students in class so that I will have your email address and contact numbers.

**Classroom Procedures:**

- Refer to handbook/code of conduct. All school policies will be enforced. Make certain to look carefully at the dress code and policy for cell phones and electronic devices.
- To receive credit for written assignments: (1) show all work and solutions; (2) complete ALL work in pencil; (3) put name on assignment. Make certain to date and label your homework.
- To receive credit for online assignments: (1) work must be completed on time (2) work must be completed by the student.
- If you choose to receive a textbook, you will need to sign for it and be responsible for it.
- Students should not touch the thermostat, computer, or anything on the teacher's desk unless permission is granted in advance. Please respect others' property.
- You may not move, write on, or sit on top of desks. You will be assigned a desk and held responsible for it.

**Classroom Rules:**

- Rule #1: Be in your assigned seat when the bell rings and immediately prepare for class.
- Rule #2: Follow directions the first time they are given.
- Rule #3: Phones are to be placed in the front of the room when entering the classroom. Each student will have their own slot for their phone every day.
- Rule #4: Listen when others are speaking.
- Rule #5 Be respectful of others and their belongings.

**Attendance and Make-Up Work:** We will do something important and worthwhile **every single day** in class. Your success in this class depends on your **daily attendance**. "You must be present to win!" When emergencies or serious illnesses occur, please share this information with me. The best way to communicate this with me is through email. I will do anything I can to help you. Please refer to the school system attendance policy. When you are absent, make-up work is your responsibility. You should check online for your assignment. Scheduling make-up tests is also your responsibility. The **maximum** amount of time allowed to make-up a test is one week. Make-up tests will be given at 7:15 AM. You must bring with you all needed materials (calculator, straightedge, compass, etc.). Sometimes make-up tests will not be given for small quizzes. However, there will always be a makeup test for major tests and exams. If you schedule a test twice and do not show up, you will receive a zero for that test. If you are absent the day before a test, you must take the test with the rest of the class unless we covered new material that day that is included on the test. Tests are announced well in advance. After an absence, you must show me that homework that was checked the first day you were absent. If you miss one day of school, you have three days to make up assignments. After being absent for more than one day, ask me how many days you have to make up the rest of your work. I will try to work with you on this. Most of the time you will NOT have a week to make up your work. Often, we will have had a test on the material you missed before the week is up, so you must make up the work before then. Of course, I will make every effort to help you and can make adjustments IF you will communicate your needs to me.

**Academic Honesty:**

Cheating, either in the classroom or on outside work (including homework) will not be condoned. All students should complete work honestly and with integrity. Always do your best work and then you will be proud of it.

Tests: Students will be monitored closely. Giving or receiving information concerning a test before, during, or after that test without permission from the instructor is an act of cheating. Possession of any information, written or electronic, that is in any way related to the material being tested without prior approval from the instructor is considered cheating.

Out of Class Work: Students' work must be solely his/hers unless the teacher gives specific instructions otherwise. In that situation, a student must credit the source(s) used. Copying homework or allowing homework to be copied is a violation of the policy.

Persons who cheat or plagiarize:

- Shall not receive credit on the work
- Shall have their parents notified by the teacher
- Shall jeopardize their standing in honor societies, extra-curricular activities, and other organizations according to the by-laws of each. Such behavior also jeopardizes letters of recommendation and scholarship opportunities.

**Important Student Responsibilities:**

- **It is important for students to check Google Classroom and school email daily.**
- In case of a time of virtual learning, students will receive important reference material and instructions through Google Classroom and email. So, it is important that students become familiar with these online tools as soon as possible.
- Students may communicate with the teacher through email and/or Google Classroom comments.

Parents,

If there is ever a question or concern, please contact me so we can avoid any miscommunication. I am so excited about this new school year and am looking forward to getting to know my students!

Don't forget to fill out the following form (provided in class) so your child can turn it into me tomorrow.

Sincerely,

**Sarah Ellen Anders**

Student Name \_\_\_\_\_ Class Period \_\_\_\_\_

**I have read Mrs. Anders' Geometry syllabus for the school year. I have read and understand procedures, rules, and the policies for Academic Honesty. These are on my page of the school website and in Google Classroom.**

**Students: I pledge to do my own work, my best work, and conduct myself so that I am an encouragement to others.**

Student Signature X

\_\_\_\_\_

Parent Signature X

\_\_\_\_\_

**Please list contact number and email addresses below.**

**Parents/Guardians Info:**

Name \_\_\_\_\_ Home Number \_\_\_\_\_

Cell Number \_\_\_\_\_ Work Number \_\_\_\_\_

Email Address(es) \_\_\_\_\_

Name \_\_\_\_\_ Home Number \_\_\_\_\_

Cell Number \_\_\_\_\_ Work Number \_\_\_\_\_

Email Address(es) \_\_\_\_\_