

Teacher Beverly Benton, 229 225-5050, ext. 139
 bbenton@tcjackets.net

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.

Course Prerequisite

Successful completion of GSE Algebra I.

GSE Standards

The course standards can be found at <https://www.georgiastandards.org/Common-Core/Pages/Math-9-12.aspx>.

GSE Geometry Units

Unit 1: Transformations in the Coordinate Plane

Building on standards from middle school, students will perform transformations in the coordinate plane, describe a sequence of transformations that will map one figure onto another, and describe transformations that will map a figure onto itself. Students will compare transformations that preserve distance and angle to those that do not.

Unit 2: Similarity, Congruence, and Proofs

Building on standards from Unit 1 and from middle school, students will use transformations and proportional reasoning to develop a formal understanding of similarity and congruence. Students will identify criteria for similarity and congruence of triangles, develop facility with geometric proofs (variety of formats), and use the concepts of similarity and congruence to prove theorems involving lines, angles, triangles, and other polygons.

Unit 3: Right Triangle Trigonometry

Students will apply similarity in right triangles to understand right triangle trigonometry. Students will use the Pythagorean Theorem and the relationship between the sine and cosine of complementary angles to solve problems involving right triangles.

Unit 4: Circles and Volume

Students will understand and apply theorems about circles, find arc lengths of circles, and find areas of sectors of circles. Students will develop and explain formulas related to circles and the volume of solid figures and use the formulas to solve problems. Building on standards from middle school, students will extend the study of identifying cross-sections of three-dimensional shapes to identifying three-dimensional objects generated by rotations of two-dimensional objects.

Unit 5: Geometric and Algebraic Connections

Students will use the concepts of distance, midpoint, and slope to verify algebraically geometric relationships of figures in the coordinate plane (triangles, quadrilaterals, and circles). Students will solve problems involving parallel and perpendicular lines, perimeters and areas of polygons, and the partitioning of a segment in a given ratio. Students will derive the equation of a circle and model real world objects using geometric shapes and concepts.

Unit 6: Applications of Probability

Students will understand independence and conditional probability and use them to interpret data. Building on standards from middle school, students will formalize the rules of probability and use the rules to compute probabilities of compound events in a uniform probability model.

Evaluation of Student Work

Benchmark	10%	<i>Grading Scale</i>	
Daily	30%	A	90 - 100
Quizzes	15%	B	80 - 89
Tasks/Projects	20%	C	70 - 79
Tests	<u>25%</u>	F	Below 70
	100%		

GSE Geometry has a state-mandated End-of-Course-Test (EOCT). This test will count 20% of the yearly average. Section 1 of the Geometry End of Course Milestone will be given on April 30, 2018 and Section 2 of the Geometry End of Course Milestone will be given on May 1, 2018. Testing on each of the days will begin at 9:00 a.m.

Textbook/Materials Used In the Classroom

GSE Geometry Frameworks (Georgia Department of Education); *Holt McDougal Georgia Analytical Geometry*, 2014 (www.myhrw.com), cost: \$84.70 (If the textbook is stolen, lost or damaged, the student is responsible for the replacement cost of the book.); scientific and/or graphing calculator; colored pencils; graph paper; notebook paper; pencils

Availability for Extra Help

The mathematics department will provide a tutoring schedule during the first week of school. If you are having difficulty understanding material, please do not wait until just before a test to get assistance.

Supplies/Notebook

A one and a half or two-inch three-ring binder (notebook) with five dividers is needed for this class. The dividers should be labeled as follows: (1) Syllabus and Standards, (2) Activating Strategies/Bell Ringers, (3) Notes/Graphic Organizers/ Daily Assignments (Practice exercises/Tasks and Projects), (4) Graded assignments and (5) Quizzes/Tests. Pencils and loose-leaf paper are needed daily in class.

Notebook Reminders

1. Keep all notes and practice problems neatly in the order given.
2. Use *pencils only*. Work written in ink will not be accepted.
3. Daily assignments should be done on a separate sheet from notes. **Label the assignment with your name, topic, date, and period in the upper right hand corner of the paper.**
4. You may clean out your notebook each nine weeks, but successful students will save notes to study for exams and the Georgia Milestones End-of-Course Assessment.

Daily Classroom Procedures

When you first enter the classroom:

1. Make sure you have your notebook, workbook, pencil, calculator and completed assignments. You will not be excused to get them.
2. Turn in your homework.
3. Sit in your assigned seat.
4. Place everything but your instructional materials on the floor.
5. Begin *Do Now* activity while attendance is being taken.

When you leave the classroom:

1. Make sure you have written down the homework.
2. Leave your desk area clean.
3. Place borrowed supplies in the appropriate location.

Writing Across the Curriculum

Writing is a powerful mode of learning. When students are able to write about the content being taught, they have a better understanding of the materials and can retain the information longer. All students will be required to respond to **at least 2** constructed response questions each nine weeks.

Constructed response questions are increasingly used on standardized tests ranging from the statewide assessments that usually begin in third grade all the way up to the college placement exams such as the SAT and ACT. To understand and answer the constructed response question, memorize the acronym "RACES." This stands for reword, answer, cite, explain, and summarize. If you are able to restate a question, provide an answer using evidence cited from the prompt given, and then explain how that evidence does, in fact, support the answer, you will probably score well on the constructed response section of any exam you take.

Performance Tasks

Tasks/projects will be done alone, in pairs, and in groups during each unit. These tasks/projects will be used as a tool to help you acquire the math content in the course. You will be asked to present your work during class.

Homework

Like the performance tasks, homework will be assigned daily as a tool to help you to acquire math content, develop confidence in problem solving, and develop your math skills. Students are expected to show all work. Homework will be graded. Other means of checking homework for accuracy and completion are also possible.

Working together on classwork and homework is encouraged, copying is prohibited. Be careful when you ask another student for help. Make sure you understand the solution. Putting an answer on your paper means that you understood that problem and could explain it to the entire class. Please review the school's policy on cheating.

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 assignment 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 unit summative assessment ("test") grade is higher than its corresponding unit 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.

Test Preparation Across the Curriculum

Formative and summative evaluations will contain ACT/SAT formatted questions. Quizzes will be given on a regular basis. Quizzes may or may not be announced, so be prepared by asking questions if you do not understand something. You must show all work on quizzes to receive full credit.

Tests will be cumulative in nature, so be sure that you keep reviewing prior topics. Daily assignments, quizzes or tests questions will be any combination of constructed response, multiple choice, true/false or matching. You will be given credit only for answers that show work. You will not be given credit for problems with no work, regardless if the answer is correct. The Georgia Department of Education formula sheet will be allowed on all quizzes and tests. You are required to keep all returned tests and quizzes in your notebook. Do not throw away any assignment.

Reading in the Content Areas

All students will be required to read an assigned novel in math during the school year.

Progress Reports

Keep all papers handed to you in the appropriate place in your notebook. Keep a record of your grades as you receive them. A written grade report will be provided by the teacher each nine weeks.

Infinite Campus

The teacher will update grades in Infinite Campus weekly. Unit tests will be entered into Infinite Campus to show when they will be given once the dates have been announced in class. 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.

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.

Class Rules

1. Be in your assigned seat and begin working on the Bell Ringer/Warm Up *before* the tardy bell rings.
2. Bring your **charged Chromebook**, notebook, paper, calculator and pencils to class daily. You will not be excused to get them.
3. Students are expected to conduct themselves in an appropriate manner at all times as outlined in the TCCHS Student 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. Keep your work area clean and neat.
8. 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, *News 4 You*, while the teacher is talking, or when someone comes to the door.
9. *Do not cheat*. Anyone caught cheating in any way at any time will receive a zero on that activity or assignment. Remember, the inappropriate giving or receiving of information is cheating.
10. *No* gum chewing, eating, or drinking is allowed in class.
11. Cell phones and other electronic devices are permitted on the premises, but not allowed in the classroom unless sanctioned by a classroom teacher as part of an instructional exercise. Any student caught using an unauthorized electronic device during school hours will have his/her device confiscated.
12. The teacher, not the bell, dismisses you.

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.

REMIND Instructions

What is remind?

Remind is a website that provides a safe way for teachers to text message or email students and parents without exchanging personal phone numbers. The service is free, but standard messaging rates do apply. If you have an unlimited text plan from your phone carrier, then you do not pay anything. The only time you pay is when you have exceeded the maximum amount of "texting" minutes according to your personal phone plan.

How does remind work?

First, we will share a code with students or parents. At that point, any student or parent who sends a text message with the code will be "subscribed" to the class. Any time we send a message from remind, all the students or parents subscribed will receive it.

How do students/parents sign up?

Students and parents sign up for notifications by sending a text message with our class code (example: text @code to 555-555-5555).

If you would like to get texts from Mrs. Benton's class:



Pick a way to receive messages for **Geometry**:

A If you have a smartphone, get push notifications.

On your iPhone or Android phone, open your web browser and go to the following link:

rmd.at/bbgeo



Follow the instructions to sign up for Remind. You'll be prompted to download the mobile app.

B If you don't have a smartphone, get text notifications.

Text the message @bbgeo to the number 81010.

If you're having trouble with 81010, try texting @bbgeo to (201) 654-7934.

* Standard text message rates apply.



Student name (printed, last name first) _____

Please read and sign the following, and have a parent or guardian read and sign it as well before returning it to Mrs. Benton.

I have received and read a copy of the syllabus during the first week of enrollment in this class. I understand the expectations and responsibilities. Should assistance be needed in obtaining any of these supplies, I will contact Mrs. Benton. Otherwise, it is assumed that each student will come to class daily with all of the supplies listed. Materials will not be loaned; all students must bring their notebook/paper, pencil, calculator and textbook to class daily.

Parent/Guardian Acknowledgement Section

Print Name

Signature

Date

Cell: () - Work: () - Home: () - _____

Email Address (es)

Student Acknowledgement Section

Print Name

Signature

Date

Cell: () - _____

Email Address (*optional*)