

ALPHARETTA HIGH SCHOOL GEOMETRY SYLLABUS

THIS GEOMETRY SYLLABUS IS COMMON TO ALL GEOMETRY TEACHERS AT AHS

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TEXTBOOK: Geometry CCCS- Glencoe McGraw Hill
ISBN: 0076639290

Cost: \$89.97

Online Version of Your Textbook is Available Through Launch Pad

COURSE DESCRIPTION

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.

Unit 2: Similarity, Congruence, and Proofs

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 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.

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. Students will solve problems involving parallel and perpendicular lines, perimeters and areas of polygons, and the partitioning of a segment in a given ratio.

Unit 6: Applications of Probability

Students will understand independence and conditional probability and use them to interpret data.

A variety of teaching strategies will be used throughout the course. The use of collaborative learning will be used frequently through group activities and discovery-based learning. There will also be teacher-led discussions as well as demonstration of skills necessary to be successful in the course. Students will be assessed in a variety of ways throughout the semester including written tests & quizzes, group activities, questioning and other nonverbal means. *Honors students may be given additional projects/assignments to earn their 7 points.

GRADING POLICY

50% Summative Grades (Tests or Large Projects)
20% Formative Grades (Quizzes, Short Projects)
10% Homework/Classwork/Daily Work
20% Georgia Milestones End-of-Course Test (EOC)

GRADING SCALE

A = 90% - 100%
B = 80% - 89%
C = 70% - 79%
F = Lower than 70%

Technical difficulties do not qualify as an excuse for not completing homework assignments. It is your personal responsibility to plan for all contingencies. (ie. Loss of internet, dead battery, server down, etc.)

MATERIALS

(BE PREPARED! Items MUST be brought to class daily):

Binder
Loose Leaf Paper, Pencils, Erasers
Protractor, Compass, Straight edge
Graph Paper, Colored Pencils
Scientific Calculator (TI- Multiview or similar)

CALCULATORS WILL BE PROVIDED FOR ASSESSMENTS

HOMEWORK

Homework may be assigned daily and should be completed consistently. Unless stated otherwise, homework is due at the beginning of the class the next school day.

Students are expected to review notes daily in order to prepare for class. Failure to complete homework may result in a student failing the course. Each assignment must be legible and have the proper heading, including name, date assigned, page numbers, and problem numbers. All problems are to be copied (except word problems) and all work must be shown in order to receive credit for the assignment.

Late homework is any complete homework not turned in at the beginning of class (or when directed). Late homework will be accepted up until the Unit Test for 50% credit - all work must be shown and the assignment must be completed.

MAKE-UP WORK POLICY

Students should read and understand the Make-Up Policies as published in the Handbook for Students and Parents, pages 73-74. This policy governs all make-up work for all classes.

*****Tests and quizzes must be made up before or after school.*****

INFINITE CAMPUS

As you may already know, Alpharetta High School uses a program called Infinite Campus that allows you to view your child's academic progress and attendance on-line.

You may contact Carolyn Vezeau at 470-254-7640 X47646, or email her at VezeauC@fultonschools.org to obtain a log on password to your account. Due to limited access to a telephone during the day, the best way to contact us is by email.

RISE & TUTORING

My RISE sessions are on Friday afternoons: 3:30 PM – 4:15 PM

Tutoring is available:

- Tuesday mornings: 7:45 AM – 8:15 AM; and
- Wednesday afternoons 3:30 PM – 4:15 PM;
- or by appointment; and
- during RISE.

AHS RISE & RECOVERY POLICY

R.I.S.E. stands for Re-teaching/Instructional Support and Enrichment.

It is dedicated time made by each teacher on a weekly basis for students to receive additional support to help build to content mastery. The AHS Recovery Policy involves opportunities designed to allow students to recover from a low or failing cumulative average and will be allowed when all work required to date has been completed and the student has demonstrated a legitimate effort to meet all course requirements including attendance. Students should read and understand the R.I.S.E. and Recovery Policies as published in the Handbook for Students and Parents, pages 72-73.

AHS DEPARTMENT R.I.S.E. SCHEDULE FOR THE 2019 - 2020 SCHOOL YEAR

Monday	- Social Studies
Tuesday	- Electives
Wednesday	- Language Arts
Thursday	- Sciences
Friday	- Maths

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EXPECTATIONS

1. Attend class daily. This is critical to your success!!
2. Help make the classroom environment positive and productive.
3. Respect yourself, your school, and others.
4. Believe in yourself and always put forth your best effort on each assignment.
5. Be on time, prepared and organized. Students who are tardy will be reported and on the third tardy, referred to administration.
6. Stay on task (e.g. taking notes, participating in discussions, working on math homework, projects, etc.).
7. Seek extra help (from me or from peers) if you are having trouble.
8. Follow all school rules. Appropriate school behavior is expected at ALL times.

ACADEMIC HONESTY EXPECTATIONS

In an effort to encourage good study habits, fair competition, and positive development in the area of academics, the Alpharetta faculty supports a strong policy for academic honesty. Student assignments turned in for grading should be the sole work of that individual student. To prevent cheating, including plagiarism, students may not collaborate with other students or adults on their assignments unless the teacher has given explicit permission to do so. This includes the giving or receiving of information in any manner, including electronically. In situations where collaboration is allowed, the teacher will clearly define what level of collaboration is appropriate. Under no circumstances is it acceptable for two students to submit identical work, unless the assignment included a group component that makes it permissible. Students are encouraged to consult with their teacher regarding what level of collaboration is acceptable prior to completing an assignment.

An environment of academic integrity is the work of all members of the AHS community; thus, the duty to report any part of academic dishonesty falls on all, including students. If any community member suspects or witnesses academic dishonesty, he or she is required to report the incident immediately (within 24 hours) to his or her teacher or administrator. Students who knowingly make false accusations are subject to disciplinary consequences.

AHS PLAGIARISM

A particular kind of honor code violation occurs with plagiarism. Plagiarism is defined as presenting someone else's work as your own including the copying of language, structure, programming, computer code, ideas, and/or thoughts of another without proper citation or acknowledgement. Plagiarism also includes using excessive editing suggestions of another student, teacher, parent, or paid editor. Unless directly stipulated by the teacher, collaboration on written work is not acceptable. Students who willingly provide other students with access to their work are in violation of the Alpharetta High School Honor Code. Upon teacher request, students may be required to submit research papers or other written work to turnitin.com. This website checks the submission for plagiarism, provides a receipt for the student to give to the teacher, and reports to the teacher that the student's work was not copied from any source.

In order to reinforce Alpharetta High School's commitment to academic honesty and the ideals of being a RICH Raider, students may be expected to write or sign an Academic Honesty pledge prior to completing an individual assignment.

The AHS Academic Honesty pledge states:

As a RICH Raider, I, _____ (student name)____, pledge that I have neither given nor received assistance on this assignment.

No electronic device may be displayed during any assessment without the explicit direction from the teacher. Violating this requirement may result in a Major Honor Code violation.