Common Core GSE Honors Geometry
Course Syllabus

Academy of Advanced Studies
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Teacher(s): Ms. Valerie Russell   **Phone Number:**
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Semester: Fall 2020   **Tutorial Day**: Friday
Textbook: HMH Into Geometry 2020 Edition   **Tutorial Hours**: 10-12noon
                                                       Tutorial Location: Google meets (Virtual)

Math Department Philosophy: We believe that by creating an environment conducive to learning, building positive rapport with students, and employing differentiated instructional strategies, we can promote student success. Furthermore we believe that each student can be successful in learning to: value mathematics, become a mathematical problem solver, communicate and reason mathematically.

Course Description: GSE Honors Geometry will provide students with an understanding of figures found in our three dimensional world and their connections to mathematics. Students will learn the language of geometry, the coordinate plane, slope, reasoning, proofs, angles, perpendicular and parallel lines, congruent triangles, triangle inequalities, and similarity.

Course Prerequisites: Successful completion of Coordinate Algebra

Common Core GSE Standard: This course has been organized to align with Georgia's Common Core GSE Geometry frameworks and curriculum map. This class guides students through all the course standards leading to the Georgia Milestones for Analytic Geometry.

Grading Scale:

Area	Percentage	Notes
Daily Work Homework Practice	40%	Students should expect daily assignments.
Tasks/Projects Assessments	40%	Expect weekly assessments. The number of assessments may change if necessary, to be determined by the teacher's discretion. Expect at least 1 task or project per unit.
Final Exam	20%	Given at the semester's end

CCGPS Standards Course Outline:

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 Proof 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.
MGSE9-12.G.CO.1 MGSE9-12.G.CO.2 MGSE9-12.G.CO.3 MGSE9-12.G.CO.4 MGSE9-12.G.CO.5	MGSE9-12.G.SRT.1 MGSE9-12.G.SRT.2 MGSE9-12.G.SRT.3 MGSE9-12.G.SRT.4 MGSE9-12.G.SRT.5 MGSE9-12.G.CO.6 MGSE9-12.G.CO.7 MGSE9-12.G.CO.8 MGSE9-12.G.CO.9 MGSE9-12.G.CO.10 MGSE9-12.G.CO.11 MGSE9-12.G.CO.12 MGSE9-12.G.CO.13	MGSE9-12.G.SRT.6 MGSE9-12.G.SRT.7 MGSE9-12.G.SRT.8

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	Unit 5: Geometric and Algebraic Connections Students will use the concepts of distance, midpoint, and slope to verify algebraically geometric relationships of	Unit 6: Applications of Probability Students will understand independence and conditional probability and use them to interpret data. Building on	Unit 7: Review of All Standards

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.	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.	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.	
MGSE9-12.G.C.1 MGSE9-12.G.C.2 MGSE9-12.G.C.3 MGSE9-12.G.C.4 MGSE9-12.G.C.5 MGSE9-12.G.GMD.1 MGSE9-12.G.GMD.2 MGSE9-12.G.GMD.3 MGSE9-12.G.GMD.4	MGSE9-12.G.GPE.1 MGSE9-12.G.GPE.4 MGSE9-12.G.GPE.5 MGSE9-12.G.GPE.6 MGSE9-12.G.GPE.7 MGSE9-12.G.MG.1 MGSE9-12.G.MG.2 MGSE9-12.G.MG.3	MGSE9-12.S.CP.1 MGSE9-12.S.CP.2 MGSE9-12.S.CP.3 MGSE9-12.S.CP.4 MGSE9-12.S.CP.5 MGSE9-12.S.CP.6 MGSE9-12.S.CP.7	

Remediation Policy:

- **Reworking Tests:** Students may make up failed tests at the teacher's discretion.
- **Temporary Zeros:** Students not completing required coursework will receive temporary zeroes for those assignments. It is the student's responsibility to make up those assignments in a timely manner. If the student has not made up missing work within a reasonable amount of time, temporary zeroes become permanent. Students are given a day for each day they are absent to make up work.
- **Homework Will Be given several days a week. _There is no mastering of anything without a sacrifice._**

Required Materials: 3 Ring Binder (1"), 7 Dividers, Pencils, Paper, Graph Paper, Scientific Calculator, Ruler, Protractor, Compass, Computer or ipad, Hand sanitizer, Tissues, Mask

Distraction is the enemy to what you are destined to become
Classroom Behavior Expectations:
I believe every student has the right to be educated. I also believe every student has the right to be educated free from any interference from others. Therefore, I have a strict behavior policy for my classroom:

Class Rules (A detailed list is stated on page 19 of the Student Guide and Handbook)
1.   Show **NO DISRESPECT** to teachers or your classmates.
2.   **BE QUIET** when the teacher is speaking.
3.   **BE ON TIME – Students tardy for class should go to the office to get a pass before entering class.**
4.   **STAY IN YOUR SEAT** unless you have permission to get up.
5.   **FOLLOW DIRECTIONS**
6.   **NO USE OF PERSONAL ELECTRONICS** such as musical devices or cellular phones.
7.   **NO EATING, DRINKING OR GROOMING** in the classroom.

Discipline Policy:

Students violating the class rules will be given **ONE WARNING** to stop their violation of the class rules. Students with a second violation who continue the behavior will receive a phone call home. Students with a third classroom rule violation will have a meeting set up between myself and parents. Parents/Guardians will also be contacted to resolve any behavior issues. Students who consistently refuse to observe classroom rules will be given a **referral** to the discipline office./counselor. Students with **chronic discipline infractions** will be referred to administration. Acute discipline problems will be referred immediately to the discipline office/counselor..

Analytical Geometry –Academy of Advanced Studies

Please sign this sheet (google form link) and return to Ms. Valerie Russell

I have read the Class Syllabus, Remediation Policy, Classroom Behavior Expectations, List of Required Materials and Discipline Policy. I understand what is expected of students in this classroom.

Student Name (Print neatly) _____

Student Signature: _____   **Date:** _____

Parent Contact Information: Home Phone _____   **Cell Phone** _____

Parent/Guardian Signature: _____   **Date:** _____