

Autrey Mill Middle School



Course Syllabus for: GSE (Georgia Standards of Excellence) Accelerated Algebra I/Geometry A

Teacher	Email	Help Sessions
Aaron Hermes	hermesa@fultonschools.org	Friday at 8:00am

Method for Grading (1st Semester)

	<u>Weight</u>
• Major Assignments (ex: Unit Assessment, Projects)	60%
• Minor Assignments: (ex: Quizzes, Formatives)	30%
• Practice (ex: classwork, homework, iReady/ALEKS)	10%

Method for Grading (2nd Semester)

	<u>Weight</u>
• ACC Algebra I/Geometry A EOC (end of course)	20%
• Major Assignments (ex: Unit Assessment, Projects)	40%
• Minor Assignments: (ex: Quizzes, Formatives)	30%
• Practice (ex: classwork, homework, iReady/ALEKS)	10%

Recovery on Major Assessments

Recovery opportunities are available if students score BELOW a 75 on a MAJOR (recovery not available on minors)

- Given within 2 weeks from original major (reteach before recovery)
- Take the higher of the two grades (original or recovered)
- The highest recovery grade that can be earned is a 75

Late Work

Students are expected to submit all work on time. Points will be deducted from the assignment grade. The maximum number of points that can be deducted for late work is 25 points.

- 10 points off for 1 day late
- 20 points off for 2 days late
- 25 points off for 3 or more days late

Textbooks:

Algebra I CCSS, McGraw-Hill, Columbus, OH, 2014. ISBN 978-0-07-663923-6

Geometry CCSS, McGraw-Hill, Columbus, OH, 2014. ISBN 978-0-07-663929-8

Students will have access to electronic versions of the textbooks through Classlink – McGraw Hill App. Students will receive instructions in class on how to access the online materials.

Course Description

The fundamental purpose of Accelerated Algebra I/Geometry A is to formalize and extend the mathematics that students learned in the middle grades. The critical areas, organized into units, deepen, and extend understanding of functions by comparing and contrasting linear, quadratic, and exponential phenomena. The Mathematical Practice Standards apply throughout each course and, together with the content standards, prescribe that students experience mathematics as a coherent, useful, and logical subject that makes use of their ability to make sense of problem situations. The pacing suggested below will allow students to gain a foundation in linear, quadratic, and exponential functions before they are brought together to be compared/contrasted in Unit 5. Although Units 2, 3, and 4 look lengthy in terms of the number of standards, only their application to one function type per unit will be addressed. As key characteristics of functions are introduced in Unit 2 and revisited within Units 3, 4, and 5, students will gain a deeper understanding of such concepts as domain and range, intercepts, increasing/decreasing, relative maximum/minimum, symmetry, end behavior, and the effect of function parameters. Unit 5 will also provide an excellent opportunity for review of many concepts in preparation for the administration of the Georgia Milestones EOC assessment. Unit 7 begins the study of geometry concepts by building upon work students have done in 8th grade math. Unit 8 continues to build upon previous learnings to build a formal understanding of similarity and congruence. The last unit of the course builds upon similarity and the Pythagorean Theorem in the study of right triangle trigonometry.

Course Outline

Unit 1: Relationships Between Quantities and Expressions

Unit 2: Reasoning with Linear Equations and Inequalities

Unit 3: Modeling and Analyzing Quadratic Functions

Unit 4: Modeling and Analyzing Exponential Functions

Unit 5: Comparing and Contrasting Functions

Unit 6: Describing Data

Unit 7: Transformations in the Coordinate Plane

Unit 8: Similarity, congruence, and Proofs

Unit 9: Right Triangle Trigonometry

You may view the current [course curriculum map](https://www.georgiastandards.org/Georgia-Standards/Frameworks/Acc-Algebra-I-Geometry-A-Curriculum-Map.pdf) at [https://www.georgiastandards.org/ Georgia-Standards/Frameworks/Acc-Algebra-I-Geometry-A-Curriculum-Map.pdf](https://www.georgiastandards.org/Georgia-Standards/Frameworks/Acc-Algebra-I-Geometry-A-Curriculum-Map.pdf)

Materials required for class

- School Device
- Composition Book (2) or Notebook
- Pencils and eraser
- Class binder or folder
- Calculators will be provided for students to use during school hours

Optional

- Stylus
- Graphing Calculator (TI-84)
- Compass
- Ruler/straightedge