GEOMETRY WITH DATA ANALYSIS

Teacher Name: Jared Smith   Teacher Email: jasmith@madisoncity.k12.al.us

Course Description: In Geometry with Data Analysis, students incorporate knowledge and skills in Geometry and Measurement, Algebra and Functions, and Data Analysis, Statistics, and Probability, leading to a deeper understanding of fundamental relationships within the discipline and building a solid foundation for further study.

Course Objectives: *2020 Alabama Course of Study: Mathematics* pages 117-126
https://www.alabamaachieves.org/wp-content/uploads/2021/03/2019-Alabama-Mathematics-COS-Rev.-6-2021.pdf

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Classroom Expectations: You are expected to conduct yourself in a respectful and productive manner. In addition to all the rules and expectations listed in the student handbook, I expect you to have a positive attitude, treat others with respect, practice self-discipline, and demonstrate responsibility. If these conditions are not met, you can expect one-on-one meetings with me, parent/instructor conferencing, and administrative action, if necessary.

Concerning the use of cell phones and other electronic devices:
Devices should be on silent and kept in your purse, backpack, or pocket during class unless otherwise instructed. You may not place it on your desk. Parents, guardians, and other family members should call the front office in case of emergency.
If you violate this rule, you can expect the following consequences:
- *First offense* – The phone or device will be placed in a phone chart at the front of the room. You may pick it up at the end of class.
- *Second offense* – The phone or device will again be placed in a phone chart at the front of the room until the end of class and a parent/guardian will be notified.
- *Third offense* – This is defiance and I will notify an administrator.

Grading Policy: Major assessments will count 70 percent of your grade. Homework and classwork will account for 30 percent of your grade. Grades will be updated weekly in PowerSchools. Each grading period will consist of nine weeks.

Make-up Work Policy: Make-up tests will **only** be given to a student who has an **excused absence**. **The student must make arrangements with the teacher to take a make-up test. Tests may be taken during Patriot Path with prior arrangement from each teacher.** A student only has two chances (the next two Patriot Paths after the absence) to make up a test. All make-up tests will be administered in the designated classroom on the Patriot Path session roster.

Homework/Classwork: Students who are absent for **excused reasons** will be permitted to make up missed work. **It is the student's responsibility to get their work assignments the day upon return to school and complete the assignments according to a time frame determined by the teacher within two weeks of the date of the last absence**. Grades of zero will be assigned for assignments missed because of unexcused absences.

Text and Other Required Reading:	Larson, R., & Boswell, L. (2020). *Geometry with Data Analysis*. Big Ideas Learning.

Materials and Supplies Needed:	Pencils 3 Ring Binder Notebook Paper Scientific Calculator Ruler

Laptops	Concerning laptop utilization: 1.Student laptops should not be hard-wired to the network or have print capabilities. 2. Use of discs, flash drives, jump drives, or other USB devices will not be allowed on Madison City computers. 3. Neither the teacher, nor the school is responsible for broken, stolen, or lost laptops. 4. Laptops and other electronic devices will be used at the individual discretion of the teacher.

Turnitin Notice	The majority of writing assignments in this course will be submitted to Turnitin via the Schoology learning platform. Turnitin generates a report on the originality of student writing by comparing it with a database of periodicals, books, online content, student papers, and other published work. This program will help students discern when they are using sources fairly, citing properly, and paraphrasing effectively - skills essential to all academic work. Students will have the opportunity to review their Turnitin originality report and will have the opportunity to make revisions before submitting their work for grading. Once their work is submitted, teachers have the opportunity to view the student/s originality report and grade accordingly.

Accommodations	Requests for accommodations for this course or any school event are welcomed from students and parents.

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18 – WEEK PLAN*	
Weeks 1-2	**Unit 1 Basics of Geometry** Essential Question: How can you use the tools of geometry to illustrate and solve real-world problems?
Weeks 3-4	**Unit 2 Reasoning and Proofs** Essential Question: When would it be appropriate to use a proof, informal and formal, in a real-world setting?
Week 5	**Unit 3 Parallel and Perpendicular Lines** Essential Question: When might parallel or perpendicular lines as well as the special angle pairs they create be applied in a real-world setting?
Week 6	**Unit 4 Transformations** Essential Question: Where can transformations be seen in your daily lives?
Weeks 7-8	**Unit 5 Congruent Triangles** Essential Question: Which approach is likely to be the most efficient when determining which congruent triangle theorem may apply for a given diagram?
Week 9	**Unit 6 Relationships within Triangles** Essential Question: When solving algebraic problems with angles and sides of a triangle, what characteristics of a triangle might be helpful?
Weeks 10-11	**Unit 7 Quadrilaterals and Other Polygons** Essential Question: How do the different types of polygons compare with each other when identifying the properties of their sides and angles?
Week 12	**Unit 8 Similarity** Essential Question: How do we use similarity to make sense of real-world problems?
Weeks 13-14	**Unit 9** Right Triangles and Trigonometry Essential Question: Is there a method (Pythagorean Theorem, special right triangles, similar triangles, or trigonometry) that is the most efficient way to solve a right triangle?
Weeks 15-16	**Unit 10 Circles** Essential Question: What relationship between tangents, central angles, inscribed angles, chords, secants, radii, and diameters of a circle exist?
Weeks 16-17	**Unit 11 Circumference, Area, and Volume** Essential Question: How can area and volume be used to find answers to real-world applications?
Week 17	**Unit 12 Data Analysis and Displays** Essential Question: How can we collect, organize, and analyze data, using technology when appropriate, to make informed decisions?
Week 18	Review for Final

This is a tentative plan and may change at the discretion of the teacher.

Please sign below to acknowledge that you have received, read, and understood the syllabus.

Student name: _____ Student signature: _____

Parent/guardian name: _____ Parent/guardian signature: _____

Parent/guardian, please provide two ways for me to contact you (email address, phone numbers):

Parent/guardian Email: _____

Parent/Guardian Phone number:_____