



GEOMETRY WITH DATA ANALYSIS

Teacher Name: Emily Albert

Teacher E-mail: esalbert@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.

Classroom Management Plan:

Classroom Management Plan

- Verbal reprimand
- Conference with student with parent contact
- Withdrawal of privilege(s) with parent contact
- Other consequences determined to be reasonable and appropriate by the school administration.

Cell Phones

Cell phones and earbuds/headphones will not be allowed to be used during classroom instruction time. Phones and earbuds/headphones will be put away in a location designated by the teacher and placed in silent mode. In secondary schools, students will have access to their phones and earbuds/headphones outside of classroom instruction time such as between classes and lunch. Failure to follow these procedures will result in a disciplinary referral to the office.

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



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Materials and Supplies Needed:

3-Ring Binder (1¹/₂"-1.5") with Dividers, Notebook paper, Pencils & Erasers, Colored pencils, Calculator (scientific recommended), School-issued device & charger

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 (English Courses)

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.

18 – WEEK PLAN*	
Weeks 1-2	Unit 0 Prerequisite Skills
Weeks 2-3	Unit 1 Geometry Basics Essential Question: How can you use the tools of geometry to illustrate and solve real-world problems?
Weeks 4	Unit 2 Logic & Proof Essential Question: When would it be appropriate to use a proof, informal and formal, in a real-world setting?
Weeks 4-5	Unit 3 Parallel & 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?
Weeks 6-7	Unit 4 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 8	Unit 5 Relationships in Triangles Essential Question: When solving algebraic problems with angles and sides of a triangle, what characteristics of a triangle might be helpful?
Weeks 8-9	Unit 6 Similar Triangles Essential Question: How do we use similarity to make sense of real-world problems?
Week 9	Unit 9 Transformations Essential Question: Where can transformations be seen in your daily lives?
Weeks 10-11	Unit 8 Right Triangles & 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?



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Weeks 11-13	Unit 7 Quadrilaterals Essential Question: How do the different types of polygons compare with each other when identifying the properties of their sides and angles?
Weeks 13-15	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 Volume & Surface Area Essential Question: How can area and volume be used to find answers to real-world applications?
Week 18	Unit 12 Data Analysis Essential Question: How can we collect, organize, and analyze data, using technology when appropriate, to make informed decisions?

***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: