



2025-2026

MATH MODELING SYLLABUS

Teacher Name: Ms. Donna McCarley

Teacher E-mail: drmccarley@madisoncity.k12.al.us

**Course
Description:**

Mathematical Modeling is a course designed to expand on students' previous knowledge by applying it to the context of mathematical modeling to represent and analyze data and make predictions regarding real-world phenomena. Mathematical Modeling is designed to engage students in doing, thinking about, and discussing mathematics, statistics and modeling in everyday life. Prerequisites for this course are Geometry with Data Analysis, Algebra I with Probability, and Algebra 2 with Statistics

**Course
Objectives:**

To meet all objectives for social studies as set forth by the Alabama Course of Study and Madison City Schools.

**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.

**Cell
Phone
Expectations**

ALL electronic devices are prohibited to be used during the instructional day. This is from 8:12-3:28. This includes: cell phones, smart watches, earbuds/headphones/airpods, tablets, and personal computers (school issues laptops will be allowed). Discipline will be given to ANY student who uses an electronic device. If you bring your device to school, it MUST be placed in your bookbag. It cannot be on your person.

Tardy Policy

Students late to ANY class, without a pass, will report to a tardy scanning station. You will input your identification number on the pin pad. A tardy slip will be printed for you to report to class. Parent email will be sent for every tardy. Discipline will be as follows: 3 total tardies will result in 1 day of ISS; 6 total tardies will result in 2 days of ISS; Progressive discipline to follow.

Grading Policy:

Grades are based on a 100 point scale. We have two types of grades: daily grades (30% of final grade) and tests (70% of final grade). The percentage based grading scale is as follows: A (90-100), B (80-89), C (70-79), D (65-69), and F (below 65). Grades will be a reflection of mastery of the standards. Make sure all absences are excused as class work can be made up and graded for excused absences only.

Cheating/plagiarizing will be handled by the teacher at teacher discretion.

**Exam
Exemption
Policy**

Any student in grades 9-12 are eligible to earn an exam exemption for the 2025-2026 Exams for each class IF they have earned an 85% or higher as the final grade for that course. Any of the following will EXCLUDE a student from exempting for that class:

- More than five EXCUSED absences
- Any UNEXCUSED absence
- In School Suspension (ISS) for 3 days or more
- Out of School Suspension (OSS)
- One or more days of Alternative School placement
- Not participating in the state standardized assessment for their grade level (10th PreACT, 11th ACT with Writing, 12th WorkKeys, and AP exams)

Attendance and full participation in reviews and assignments for the class leading up to the day of the final exam are required.



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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 Prep, before school or after school with prior arrangement from each teacher. All make-up tests will be administered in the teacher's classroom and must be completed within two weeks of the date of the last absence.

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: ANGEL, A. R., Runde, D. C., & Abbott, C. D. (2021). *Survey of mathematics with applications: High school edition* (11th ed.). PEARSON.

Materials and Supplies Needed:

Folder/Binder	loose leaf paper
Chromebook & charger	WIRED Earbuds for chromebook
Pencils	Scientific Calculator

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.

18 – WEEK PLAN*	
Weeks 1-2	Intro to Personal Finance
Weeks 3-4	Banking
Weeks 5-6	Applications of Ratios, Percents, Proportions
Weeks 7-8	Budgets
Weeks 9-10	Purchasing an Automobile
Weeks 11-12	Housing Options
Weeks 13-14	Investing
Weeks 15-16	3D design
Weeks 17-18	Data, Probability and Statistics

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

I look forward to having a great year! I feel fortunate to have your student in my class this semester and hope that you will contact me should you have any concerns about the progress of your student or any aspect of the instruction. With your student, please read the



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attached policies, then sign and date this signature page and have your student submit this on Schoology or print off and return to school. Please provide a current email address and phone number at which I can contact you should the need arise. Please contact me at school via my email with any concerns.

Game On!

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

Student Name:
Student Signature:

Parent/Guardian Name:
Parent/Guardian email:
Parent/Guardian phone: