ALGEBRA 2 WITH STATISTICS - FALL 2025

Teacher Name: Margaret Sumera

Teacher Email: masumera@madisoncity.k12.al.us

Course Description:

In Algebra II with Statistics, students incorporate knowledge and skills from several mathematics content areas, leading to a deeper understanding of fundamental relationships within the discipline and building a solid foundation for further study. In the content area of Algebra and Functions, students explore an expanded range of functions, including polynomial, trigonometric (specifically sine and cosine), logarithmic, reciprocal, radical, and general piecewise functions. Students also solve equations associated with these classes of functions. In the content area of Data Analysis, Statistics, and Probability, students learn how to make inferences about a population from a random sample drawn from the population and how to analyze cause-and-effect by conducting randomized experiments. Students are introduced to the study of matrices in the Number and Quantity content area.

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.

*If you miss information during note-taking, please consult a classmate before coming to me with questions. It's important that you take initiative in your learning, help yourself first, and I'll be glad to support you from there.

Cell Phones and Laptops:

Please refer to the Madison City Schools Code of Student Conduct and Madison City Schools policy manual concerning wireless communication devices

Grading Policy:

Test grades will account for 70% of the 9-weeks grade, with the remaining 30% being determined by quiz/daily grades. The 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. The final exam counts for 20% of the final grade.

All daily work is assigned to help you understand the material necessary to pass a test. No grades will be changed once a student has taken a unit test.

Make-up Work Policy:

Make-up tests are only allowed for <u>excused</u> absences. Students with excused absences should make arrangements with me to take any missed assessments.

Materials and

1. Three ring binder; Notebook paper; Graph Paper; Dividers

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Supplies Needed:

2. Pencils (anything done in pen will NOT be graded)
3. Scientific Calculator (You may NOT share with a classmate)
recommend TI - 34 MultiView, Casio fx-300ex Plus, or TI - 84 Plus

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.

Schoology:

- Assignments will be listed in schoology. There will be in class activities to support learning and understanding that will not be available digitally. Attendance will be important to ensure no vital information is missed. There are NOT videos to replace learning in the classroom. When available, videos will be posted to support the learning and enhance understanding of material taught in class.
- All work must be shown on paper. No credit will be given for work submitted on schoology, desmos, delta math, or mathxl/savvas without the work.
- If you read this entire document, email me your favorite color.

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18 - WEEK PLAN*	
WEEK 1	Unit 1: Functions and Inverses
WEEK 2	Unit 1: Functions and Inverses
WEEK 3	Unit 2: Radicals
WEEK 4	Unit 3: Quadratics and Complex Numbers
WEEK 5	Unit 4: Polynomials
WEEK 6	Unit 5: Exponential and Logarithmic Functions
WEEK 7	Unit 5: Exponential and Logarithmic Functions
WEEK 8	Unit 6: Rational Functions
WEEK 9	Unit 6: Rational Functions
WEEK 10	Unit 7: Unit Circle
WEEK 11	Unit 8: Applications of Trigonometry
WEEK 12	Unit 9: Trigonometric Modeling
WEEK 13	Unit 9: Trigonometric Modeling
WEEK 14	Unit 10: Matrices
WEEK 15	Unit 11: Collecting Data and Inference
WEEK 16	Unit 11: Collecting Data and Inference
WEEK 17	Unit 12: Normal & Sampling Distributions
WEEK 18	Review for Final Exam

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* This syllabus serves as a guide for both the teacher and student; however, during the term it may become necessary to make additions, deletions or substitutions.