



Advanced Mathematics
Mrs. Jodi D. Morgan
Fannin County Middle School
6th Grade

Contact Information:

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Website: <http://jmorganmath.weebly.com/advanced-math.html>

Materials needed:

-spiral notebook with pockets (preferred) -Composition Book -No. 2 Pencils
-Papermate felt tip marker pens (*optional*) -Highlighters (*optional*)

Introduction:

Welcome to 6th grade Advanced Mathematics. Throughout this course we'll cover each sixth grade math standards and three units of seventh grade math standards. In sixth grade math instructional time focuses on four critical areas: 1) connecting ratio and rate to whole number multiplication and division and using concepts of each to solve real world problems, 2) develop understanding of division of fractions as well as extending the idea of number systems of rational numbers; including negative numbers, 3) writing, interpreting, and using expressions and equations, and 4) developing understanding of statistical thinking. Particular emphasis will be on the expansion of number systems through distributing/factoring and building an understanding of the basic fundamentals of Algebra.

Course Goals/Objectives: *As a result of this class, students should:*

- Understand ratio concepts and use ratio reasoning to solve problems.
- Apply and extend previous understandings of multiplication and division to divide fractions by fractions.
- Compute fluently with multi-digit numbers and find common factors and multiples.
- Apply and extend previous understandings of numbers to the system of rational numbers.
- Apply and extend previous understandings of arithmetic to algebraic expressions.
- Reason about and solve one-variable equations and inequalities.
- Represent and analyze quantitative relationships between dependent and independent variables.
- Solve real-world and mathematical problems involving area, surface area, and volume.
- Develop understanding of statistical variability.
- Summarize and describe distributions.

Assignments:

Daily assignments will be given in the form of a weekly spiral homework sheet. Each sheet contains four nights worth of assignments. Each night should not exceed ten problems. It is at the student's discretion as to the pace in which the homework is completed. However, it will be graded on Friday of each week. Each student will grade their sheet in class; therefore, it **MUST BE COMPLETED** by Friday of each week.

Additional homework may be assigned if students do not complete their work in class for that day. Please be aware the assignment was originally classwork and was not finished in the required time allotted. Therefore, students may acquire more than one sheet of homework each week.

Certain units will involve projects. Project time may be limited at school which will require more work at home. Be sure to space out your work time accordingly. Due dates will be given when project is assigned

Tests/Quizzes:

Each unit will consist of one unit test at the conclusion of the unit. Certain lengthy units may require one or more quizzes throughout. Notebook checks count as a test grade and will be conducted at least twice in a 9 week period. All tests, quizzes, and notebook checks will be announced at least 3 days in advance. Study guides to tests and quizzes may be found on the website after dates have been announced.

Math Notebook:

Notebooks are for math class only. Do not use your math notebook for any other subject. Notebooks are required to be kept neat and organized. Students are encouraged to keep all tests and quizzes once they're graded and given back. Semester exams are created from previous unit tests and quizzes. Students are also encouraged to keep all weekly homework sheets once they've been graded and given back to use for Milestone's studying.

Procedures:

- No credit for assignments turned in *more than 5 days* after the due date. (an absence is an exception. Please see "Student Handbook" for rules on absences)
- 10 points deducted for last name or first name missing on assignment.
- 20 points deducted for NO name on assignments.
- Please do not ask for extra credit! You may work through USATestPrep to earn "green dots" and "progress bars" for additional points. More information will be given at a later date and announced on the website.
- If you are confused on any assignment or project please ask for help, that's why I'm here...to help you!!