



MATH 8 Syllabus

Discovery Middle School
1304 Hughes Road
Madison, AL 35758

Teacher:

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Class Webpage:

[Schoology](#)

Phone Numbers:

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Course Description: Math 8 is based on the Alabama Standards for 8th grade. Students who successfully complete this course will take Geometry in the 9th grade. The curriculum addresses numerous mathematical concepts such as number theory, laws of exponents, algebraic expressions, slope-intercept method, linear functions, Pythagorean Theorem, irregular and composite plane figures, data collection and analysis, and experimental and theoretical probability. This course also deepens conceptual understanding through the Standards of Mathematical Practice.

Course Objectives: (1) **formulating and reasoning about expressions and equations, including modeling an association in bivariate data with a linear equation, and solving linear equations and systems of linear equations;** (2) **grasping the concept of a function and using functions to describe quantitative relationships;** (3) **analyzing two- and three-dimensional space and figures using distance, angle, similarity, and congruence, and understanding and applying the Pythagorean Theorem.**

**Classroom
Expectations:**
***Virtual and face to
face**
~Face to face only
#Virtual only

Classroom Rules and Procedures:

*Be on time to class with all needed materials.

*Each day the class will begin with a Problem of the day (POD). It is expected that each student start this upon entering the class and complete it in a timely fashion.

~Students are to ask permission before leaving their seat.

*Papers are to be headed properly.

*It is the student's responsibility to check the designated area for make-up work. Make up work should be done in accordance with Discovery policies.

~Cell phones not in the designated area and any other electronic devices will be collected and turned into administration if out during class without permission.

~No food in classroom unless specified by teacher.

*Turn papers in to the appropriate tray or follow the specific directions given by the teacher. If assignments are not turned into the correct location they will not be graded.

Accommodations:

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

Grading Policy:

Test grades will account for 60% of the 9-weeks grade, with the remaining 40% 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.

Daily Grades:

Classwork: Classwork will be assigned to allow students to practice concepts learned in class. Grades will be earned on student's ability to demonstrate their understanding of the concepts.

Quick checks: Quick checks will be given to assess students understand of concepts learned in class. **Quick checks will be given for accuracy.** If a student is caught talking or using unauthorized notes/technology on a quick check, they will receive a **zero**.

Assessments/Projects:

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Test: Test dates will be announced at the beginning of each unit. There will be an assessment given at the end of each unit. **Test are graded for accuracy.** If a student is caught talking or using unauthorized notes/technology on a test, they will receive a **zero**.

***Retakes:** There needs to be at least one week between initial test and retake. Teachers need to know that students have worked on a skill(s) prior to retakes. Skills will be retaught in whole group, small group, and/or with one-to-one instruction. Students will receive review work assigned by the teacher, or if a teacher is confident that a student has improved through watching them during instruction, they can go ahead and let the student retake.

Projects: TBD

Missing Assignment/Make Up Work:

Students should watch the missed class video, complete the classwork assignment and submit by the following Monday.

Make-up Test Policy:

*Students who miss a test will need to arrange with their teacher a time when they will be able to make it up.

Tutoring:

#Online student support will be posted on Schoology. This will take the place of in person tutoring.

Textbook:

<http://www.bigideasmath.com/> (no password required)

Materials and Supplies Needed:

1. *Scientific Calculator
2. 2” 3 Ring binder or notebook
3. 12 Dividers
4. 2 packs of lined notebook paper

Course Outline:

Unit 1: Solving Equations
Unit 2: Square Roots Pythagorean Theorem
Unit 3: Transformations
Unit 4: Multi-Transformations
Unit 5: Linear
Unit 6: Relating triangles and slope
Unit 7: Functions
Unit 8: Writing Linear Equations
Unit 9: Scatter Plots/ Two Way Tables
Unit 10: Systems of Linear Equations
Unit 11: Volume
Unit 12: Exponents
Unit 13: Scientific Notation
Unit 14: Parallel Lines