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| **Course Description:** | Math 8 is based on the Alabama College and Career Ready Standards for 8th grade. Students who successfully complete this course will take Algebra I or Algebra IA and Algebra IB 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. |
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| **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.** |
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| **Classroom Expectations:** | 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- bell work). 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.  -Absent notes should be turned into the front office within 3 days of the absence. Make up work is only accepted for **EXCUSED** absences.  -Absent work can be found in folders by the classroom door. It is the student’s responsibility to check the folders when they return to school to get their missed work.  -Cell phones 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.  **-This syllabus should be kept in the front of your notebook.-**  Accommodations:  Requests for accommodations for this course or any school event are welcomed from students and parents. |
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| **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.  **Assessments/Projects:**  **Assessment:** Assessment dates will be announced at the beginning of each unit. There will be an assessment given at the end of each unit. **Assessments are graded for accuracy.** If a student is caught talking or using unauthorized notes/technology on an assessment, they will receive a **zero**.  **Projects:** Some projects will be completed individually and some will be completed as a group. Points will be deducted for late projects. If you plan to be out when a project is due, you must turn it in before the due day. Computer error *will not* be accepted as an excuse when projects are not turned in on time. Students will be given a rubric to follow for each project. |
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| **Make-up Test Policy:** | Make up work will only be accepted for **excused absences**. Students are responsible for their make-up work. Students are also responsible for the missing assignments and homework when they are absent. Make up assignments will only be accepted for **3 days** after the last day the student was absent. It is helpful to e-mail or call the school to receive make up work ahead of time. **“It is the responsibility of the student to ensure he or she makes up work following excused absences. Student will not receive credit for and will not be allowed to make up any assignments, tests, work, activities, etc., missed during unexcused absences.”** (DMS 2017-2018 Student Handbook)  Make up tests can be taken at tutoring (a schedule will be sent out).  **Tutoring:**  I will send out with my first weekly update. You may also see school website. |
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| **Textbook:** | <http://www.bigideasmath.com/> (no password required) |
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| **Materials and Supplies Needed:** | **1.** Scientific Calculator **5.** 4 count (or more) of Expo Markers **(turn in to teacher)**  **2.** 2 Spiral Notebooks  **3.** 1 pack of lined notebook paper **(turn in)** **6.** 2 LINED Composition Notebook Black and Green (9 ¾” by 7 ½”)  **4.** 1 Pack of Graph paper **(turn in to teacher)** |
| **Course Outline:** | Unit 1: Solving Equations  Unit 2: Square Roots Pythagorean Theorem  Unit 3: Transformations  Unit 4: Linear  Unit 5: Writing Linear Equations  Unit 6: Functions  Unit 7: Comparing Rates  Unit 8: Scatter Plots/ Two Way Tables  Unit 9: Systems of Linear Equations  Unit 10: Volume  Unit 11: Exponents  Unit 12: Scientific Notation  Unit 13: Parallel Lines |
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