



## Vision

*Austin Road Middle School will cultivate an environment for creativity, innovation and leadership where we exceed expectations every day.*



## Mission Statement

*Austin Road Middle School strives to develop a nurturing school community that encourages academic success for each scholar through a rigorous curriculum and extracurricular opportunities supported by dedicated teachers and staff.*

## AUSTIN ROAD MIDDLE SCHOOL

### 8th Grade Math Course Syllabus 2020-2021

#### Instructors:

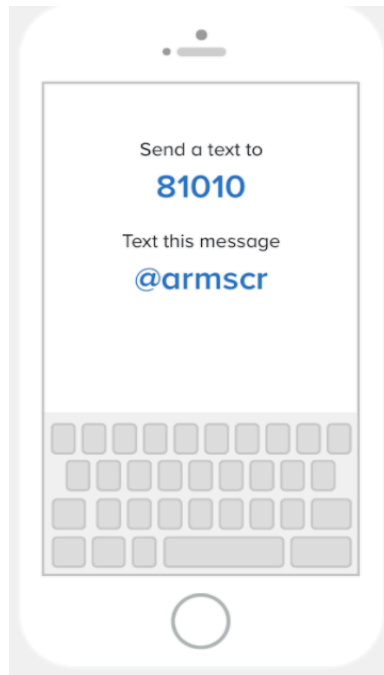
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#### Remind101:



## Welcome to the 2020-2021 school year!

### Course Description

8th grade mathematics is anchored through the Georgia Standards of Excellence which focus on actively engaging students in the development of mathematical understanding by using manipulatives and a variety of representations, working independently and cooperatively to solve problems, estimating and computing efficiently, and conducting investigations and recording findings. In our mathematics classrooms, scholars will learn to think critically by using the Standards of Mathematical Practice (SMPs) with the understanding that there are many different ways to a solution.

## **GSE Mathematics Grade 8th Course Objectives/Content:**

**Exponents and Equations- 1<sup>st</sup> 9 weeks** Students will explore and understand that there are numbers that are not rational, called irrational numbers, and will approximate their value by using rational numbers. Clear understanding of irrational numbers will be demonstrated using models, number lines, and expressions of estimates and approximations. Students will work with radicals and express very large and very small numbers using integer exponents.

**Transformations, Congruence, and Similarity 1<sup>st</sup> / 2<sup>nd</sup> 9 weeks**-The first unit centers around geometry standards related to transformations – translations, reflections, rotations, and dilations, both on and off the coordinate plane – and the notion of congruence and similarity. Students will understand congruence and similarity using physical models, transparencies, or geometry software. Students learn to use informal arguments to establish proof of angle sum and exterior angle relationships related to parallel lines and two dimensional polygons.

**Geometric Applications of Exponents-2<sup>nd</sup> 9 weeks** Students will extend their work with irrational numbers by applying the Pythagorean Theorem to situations involving right triangles, including finding distance. Proof of the Pythagorean Theorem and its converse allow students to demonstrate understanding of the theorem. Real-world problems are solved involving volume of cylinders, cones, and spheres.

**Functions- 2<sup>nd</sup>/3<sup>rd</sup> 9 weeks**The fourth unit introduces students to relations and functions, and defines a function as a relation whose every input corresponds with a single output. From this understanding, students define, evaluate, and compare functions. Functions are described and modeled using a variety of representations, including algebraically, graphically, numerically in tables, and verbally.

**Linear Functions-3<sup>rd</sup> 9 weeks** In unit five, functions are further explored, focusing on the study of linear functions. Students will understand the connections between proportional relationships, lines, and linear equations, and solve mathematical and real-life problems involving such relationships. Slope is formally introduced, and students work with equations for slope in different forms, including comparing proportional relationships represented in different ways (graphically, tabular, algebraically, verbally).

**Linear Models and Tables 3<sup>rd</sup> / 4<sup>th</sup> 9 weeks**-Students will extend the study of linear relationships by exploring models and tables. They will use functions to model relationships between quantities and describe the rate of change. The study of statistics expands from more simplistic samples and collections in sixth and seventh grade, to bivariate data, which can be graphed and a line of best fit determined.

**Solving Systems of Equations 4<sup>th</sup> 9 weeks** -The final unit broadens the study of linear equations to situations involving simultaneous equations. Using graphing, substitution, and elimination, students learn to solve systems of equations algebraically, and make applications to real-world situations.

<https://www.georgiastandards.org/Georgia-Standards/Documents/Grade-6-8-Mathematics-Standards.pdf>

### **Resources:**

Google Classroom

Into Math, Houghton Mifflin Harcourt textbook

USA TestPrep

Henry County's Online Flexbook (8<sup>th</sup> Grade)

<https://www.ck12.org/user%3Aagnzbwf0aebnbwfpbc5jb20./book/Henry-County-Schools-GSE-Eighth-Grade-Mathematics-Flexbook/>

For additional information, visit my website via the Austin Road site at

<https://schoolwires.henry.k12.ga.us/Domain/8108>

## **Required Materials: important**

- (1) 3-ring binder
- (2) Plastic 3 prong pocket folders
- Colored Pencils, Markers, Etc.
- Set of Highlighters
- Loose Leaf Notebook Paper (for the year – Approximately 5 Packs)
- Mechanical Pencils and/or Regular Pencils
- *Scientific Calculator (Labeled with Scholar's Name)*
- *Chromebook (fully charged)*
- *Composition or Spiral*
- *Mini White Board*
- *Expo Markers*
- *Headphones*

## **Grading System**

A = 100 – 90

B = 89 – 80

C = 79 – 74

D = 73 – 70

F = below 70

## **Grading Policy (Category Weights)**

### **Practice Work: 40% of grade**

Classwork

Common Formative Assessments (Quizzes)

Notebook (minimum of two per term required)

### **Assessment Tasks: 40% of grade**

Summative Unit Assessments

Constructed/Selected Response Assessments

Culminating Performance Tasks/Projects

### **Semester Summative Assessment Tasks: 20%**

Semester Summative Assessment/EOC

Henry County Schools provides high school and middle school parents and scholars access to grades via Infinite Campus Portal on the Internet. Please contact the school counselors and/or secretary to obtain your password.

## **Non-Academic Grades**

Scholars will be evaluated on non-academic factors as follows through the conduct grade:

S--Satisfactory

N--Needs Improvement

U--Unsatisfactory

## **Virtual Classroom & Face to Face Classroom Expectations**

- Come to class prepared every day.
- Actively participate in every lesson.
- Complete all assignments to the best of your ability.
- Be open minded in your mathematical thinking
- Collaborate with classmates when necessary.
- Be supportive and respectful to your classmates and teacher.
- Take breaks before class begins (virtual and face to face).
- Avoid the use of inappropriate comments/posts in the chat section of the virtual platform.

\*Discipline Disclaimer- Inappropriate behavior will be reported to parents and administrators for further corrective actions.

## **Make-Up Work**

a. On the first day back from an absence, scholars are responsible for attaining and completing any missed assignment(s). The number of days allowed to complete make-up work will be commensurate with the number of days in which the scholar was absent. Failure to comply with this procedure will result in a grade of zero (0) being given for any graded assignment(s) that the teacher gave during the time of the scholar's absence.

b. Scholars assigned out-of-school suspension (OSS) will be allowed to make-up work upon return to school. The number of days to complete the assignment(s) is commensurate to the number of days of OSS (i.e., 3 days of OSS = 3 days to make up missing assignments).

\*c. If a scholar misses class during remote learning, they should access remote learning plans/assignments on the Remote Learning page of the school website to attain and complete assignments.

### **Late Work Policy**

Assignments that are not submitted on time will receive an "M" (missing) within the Infinite Campus gradebook. All scholars will be given ample opportunity to submit their work through activities to include but not limited to amnesty day(s), working lunch, before/after school tutorial, etc. **After the task has been submitted, the teacher will then replace the "M" in Infinite Campus with the earned grade. Any assignment not submitted by the end of the term, in which it was assigned, will remain as a permanent grade of zero (0%) within the Infinite Campus gradebook for the remainder of the semester.**

### **Absences**

**It is the scholar's responsibility to find out what they miss when they are absent. Extra credit is given randomly throughout the year. Please take advantage of it. It is not given out by request.**

***Don't forget to join REMIND to receive one-way messages from the teacher!!***

***See your scholar's math teacher's web page or google classroom for the remind codes.***

### **Tutoring**

Tutoring available every Wednesday morning at 8 am. Scholars arriving after 8:10 am will not be allowed to attend the session. Sessions will begin September 2, 2020

### **Technology**

Chromebook use is allowed only during "power on" technology time. Chromebook usage is for instruction only. It is the scholar's responsibility to ensure that his or her Chromebook is brought to school fully charged. Devices will not be charged in the classroom.

Cell phones are not permitted in the classroom.

## ***8th Grade Math SYLLABUS ACKNOWLEDGEMENT***



By signing this document, you acknowledge that you have read the syllabus in its entirety and will be held accountable if you do not meet the expectations stated above.

Select the link below and complete the syllabus acknowledgement form.

<https://forms.gle/c6CrsaYiM4y41uFg6>

Thank you,

Ms. Crawford

Mrs. Walton

Mr. Moody