



# Woodland Middle School

## Course Syllabus

**Teacher:** Mr. Benjamin

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### Course and Description:

The eighth grade standards are designed to prepare students to bridge from middle grades mathematics to high school courses that will ensure all students are college and career ready by the conclusion of their fourth high school course. The Standards for Mathematical Practice are a key component as they are applied in each course to equip students in making sense of problems and building a set of tools they can use in real-world situations. Rather than racing to cover many topics in a “mile-wide, inch-deep curriculum”, the standards ask mathematics teachers to significantly narrow and deepen the way time and energy are spent in the classroom. Much of the eighth grade mathematics curriculum focuses on functions and linear relationships as building blocks to algebra and geometry.

**Core Resources:** HMH into Math – Grade 8 Volume 1 & 2

**Communication Tools for this course:** Remind – class code is **MRBMATH20**. Text @mrbmath20 to 81010 to sign up.

### Grade Weights:

#### 1. Academic Grades

- a. The following grading format should be used by teachers in Henry County secondary schools.

Practice Work	Assessment Tasks	Semester Summative Assessment Tasks
Class work, homework, formative assessments, diagnostic assessments, written reflections  May be graded for accuracy or completion	Such as constructed response assessments, selected response assessments, reflective assessments, summative unit assessments, culminating performance tasks, projects	Assesses the totality of standards for the course. In the case of a high school course with an End of Course (EOC) Test, the semester summative assessment will be the EOC at the completion of the full course.
Counts 40 % of the grade.	Counts 40% of the grade.	Counts 20% of the grade.

- b. Students should receive at least one academic grade in each subject each week. Grades should be entered into the gradebook weekly.

Teachers will use the Henry County Teaching and Learning Standards (HTLS) as the foundation for teaching and learning. You can located the HTLS on the Henry County Schools Website:

<https://schoolwires.henry.k12.ga.us/Page/119112>. Students will cover the following Standards during the 1<sup>st</sup> Semester:

**Unit 1:** 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.

**Unit 2:** 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.

**Unit 3:** 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.

**Unit 4:** 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.

**Supply List for this Course:** 100 Sheet Composition Notebook, Scientific Calculator, #2 Pencils (Wooden or Mechanical), Different Colored Highlighters, 1 Folder, Glue Stick, Scissors

#### **Woodland Middle School Grading Norms/ Grade Recovery:**

Students have the following opportunities for grade recovery during each 4½-week period: Students will not be able to make-up or re-do assignments beyond the 4½-week period. Grade recovery opportunities will be determined with the teacher before/after school, during working lunch or during designated times at teacher discretion.

#### **Practice Work (Homework/Classwork and Written Reflections)**

- Teacher feedback on assigned practice work is not required after the original due date, but self-reflection on practice is encouraged.
- Teacher feedback on formative practice work within a timely manner.
- For practice work not submitted on the due date, submission and grading will need to take place within the 4½-week period.
- Students who fail to turn in practice work as assigned must make-up the work by the end of the 4½-week period. Late work will receive a maximum score of 70%.

#### **Assessment Tasks (Constructed Response Assessments, Selective Response Assessment, and Summative Unit Assessments)**

- Students can make corrections to common quizzes and/or retakes and receive half credit for corrections. The format in which quiz corrections are completed will be at the teacher/content discretion.
- Quiz corrections and/or retakes should be complete and submitted within the 4½-week period.

#### **Semester Summative Assessment Tasks (Semester Final Exams)**

- All grades attained for the exam will be final. There will be no opportunities for grade recovery in this category.

**HCSS Excused Absence/Make-up Work Policy:** When students are absent, **it is the responsibility of the student-not the teacher-to get missed assignments and to make up (and turn in) all missed notes, tests, assignments and/or homework.** Students are expected

to make up missed tests/turn in projects on the first day following any absence. Students have a number of days equal to the number of missed days to make up all other assignments.  
**I have read and understand the policies and expectations for this class.**

\_\_\_\_\_  
Student's Signature/Date

\_\_\_\_\_  
Parent's Signature/ Date