

8th Grade Math Syllabus



Instructor: Jessica Watts

- Email: jessica.watts@henry.k12.ga.us
- Google Voice: 470.242.1057

Course Description and Learning Targets

In 8th grade math we focus on three critical areas: (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.

Course Structure

Lessons will be delivered through virtual teacher-taught live lessons with additional practice activities/tasks accessed through your Henry County Schools Google Classroom account or HMH textbook or software. Lessons are built following the gradual release process which promotes teacher modeling, student practice with immediate feedback, and then student independent work. Mastery of concepts will be measured by assessing student independent work samples, quizzes, and unit assessments. Each unit will have a study guide/review activity that will need to be completed and submitted before the unit assessment. Unit assessments will be proctored online through Google Meet and GoGuardian. Students are expected to complete assignments daily and by the assigned due date. All work for a unit must be completed and turned in before the unit assessment. **Students will not be allowed to return to previous units to complete work that they failed to turn in on time.**

Academic Integrity and Student Conduct

As an Impact Academy student, you are expected to abide by our program's expectations for academic integrity and student conduct. These documents are described in detail on the Impact Academy website.

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Course Communication

E-mail

Start and end each work day by reading and responding to messages in your school email account and IC messages.

Phone Calls and Text Messages

Please call or text me at any time. I will most likely respond quicker to text messages.

Course Schedule and Grading

Unit of Study
Unit 1: Irrationals, Integer Exponents and Scientific Notation (5 weeks)
Unit 2: Investigating Linear Expressions, Equations, and Inequalities in One Variable (5 weeks)
Unit 3: Modeling Linear Relationships & Functions (8 weeks)
Unit 4: Real-Life Phenomena Explored Through Systems of Linear Equations (4 weeks)
Unit 5: Investigating Data & Statistical Reasoning (4 weeks)
Unit 6: Exploring Geometric Relationships (4 weeks)
Unit 7: Review, Enrich, Accelerate (6 weeks)

Weighting of Grades

40% = Practice Assignments

40% = Assessments

20% = Final Exam

Accommodations provided by 504s and IEPs will be adhered to throughout the year virtually and face to face.

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STANDARDS FOR MATHEMATICAL PRACTICE

1. Make sense of problems and persevere in solving them.
2. Reason abstractly and quantitatively.
3. Construct viable arguments and critique the reasoning of others.
4. Model with mathematics.
5. Use appropriate tools strategically.
6. Attend to precision.
7. Look for and make use of structure.
8. Look for and express regularity in repeated reasoning.

Testing Procedures and Proctoring

Unit tests will be taken depending on when they are assigned by the teacher. The teacher will communicate the exact test dates. We will utilize Illuminate for online testing during the year and proctor with GoGuardian, so the school issued laptop is a requirement.

MAP Testing will be administered three times during the year. **Students are required to be on campus** on August 6th and 9th, November 19th and 22nd, and March 11th and 14th to take the MAP assessments.

PSAT

October 16th - Students required to be on campus for testing.

Missing Work and Make-up Assessments

Missing Work

Email the teacher upon completion of a missing assignment requesting for the assignment to be graded. The email must include the original date of the assignment and name of the assignment. **Missing work from any particular unit will not be accepted after completion of the unit assessment.**

Make-up Assessments

The student is responsible for requesting to take a make-up assessment. Missed assessments may be taken up to two weeks after the original date of the assessment.

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Attendance

Attendance will be taken daily by each teacher for each class. To be marked present the student must be actively participating in the class. Just being logged into a meet does not qualify for attendance.

Promotion to 9th Grade

In order to earn promotion to the next grade level, students must meet the requirements set forth by the HCBOE (there is a rubric) that demonstrates that students are prepared for the next grade. The rubric examines Classroom Performance on State Standards as Represented by Student Grades, Proficiency for Reading and Math, Academic Growth during the year. Additional considerations in determining placement include age, maturity, and attendance. To measure student achievement levels we will use Georgia Milestone scores, MAP scores, and teacher assessment scores.

Supply List (suggested)

- 3 ring binder (can be shared with another subject)
- Dividers (if you are sharing it with another subject)
- Notebook Paper
- Graph Paper
- Pencils
- Highlighters (or colored pencils, or colored pens)
- Ruler
- Earbuds or headphones