**COURSE CODE: 8th Grade Math**

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**COURSE DESCRIPTION:** Students will begin a study at the beginning of the Core Connections 3 course (8th grade course). At the end of the year students are prepared for high school.

**PREREQUISITES:** Completion of 7th Grade Math.

**OBJECTIVES:** As a result of this course, students will be able to:

* Represent a linear function with a graph, table, rule, and context and create any representation.
* Solve systems of equations by using tables and graphs.
* Solve contextual word problems using multiple strategies, including making tables, looking for patterns, drawing diagrams, and creating a table of guesses to assist with writing and solving a variable equation.
* Describe various geometric transformations on a coordinate grid.
* Represent data using scatterplots and describe associations.
* Compare ratios and calculate unit rates and slope ratios.
* Analyze the slope of a line graphically, numerically, and contextually.
* Recognize and use the properties of similar figures to solve problems.
* Use the Pythagorean Theorem and its converse to solve problems in two and three dimensions.
* Represent and simplify expressions using positive and negative exponents.
* *Perform operations with numbers represented in scientific notation.*
* Use the relationships between angles created by parallel lines with transversals.

**ATTENDANCE AND PUNCTUALITY:**  If a student is absent please contact the office to let us know. Students who arrive at school after the first tardy bell should report to the main office to sign in. Students are allowed nine (9) absences per class period during the semester. Verbal communication must come from a parent/guardian within 48 hours of the absence to prevent truancy.  ***If a student leaves class early (sports, doctor, etc.) they are still responsible for the homework assigned that day.***

**MAKE-UP WORK:** After an absence, it is the student’s responsibility to communicate with the teacher for make-up work. They are to check google classroom first, as the daily agendas and most materials can be found there. Handouts and worksheets will also be uploaded on google classroom. Students should e-mail if they have additional questions and turn in work within a reasonable time in accordance with the teacher’s late work policy.

**TARDIES:** Students are considered tardy if not in their assigned classrooms when the tardy bell rings. Tardies accrue on a semester basis. The tardy policy incorporates the following:

* First Tardy -- Teacher warns student
* Second Tardy -- Teacher warns student
* Third Tardy -- Student assigned to designated detention

**COMMUNICATION:** If you have a question you can reach me by phone, email, and through google classroom. Skyward is where you will find current grades. Progress reports will be emailed to students and parents on a regular basis.

**CELL PHONES AND OTHER ELECTRONIC DEVICES:** Students are NOT allowed to have their cell phone or electronic devices in the classroom. This includes AirPods. Misuse of this policy will result in loss of device. Students will be required to turn their device into the office. *Students will never be allowed to use a cell phone as a calculator.*

**FOOD AND DRINK**: Students may have water bottles in class and bring a small healthy snack. I allow gum as long as I do not see or hear it.

**GRADING:** Grades will be calculated based on a percentage system 70-30.

30% - Daily work, homework quizzes, desmos activities, and exit tickets.

70% - Assessments (including exams and projects)

90-100% = A 80-89% = B 70 -79% = C 60-69% = D < 59% = F

**Homework Policy:**  We will correct homework problems each day and answer questions. However, homework will not be graded. Instead, students will receive all of the assigned problems at the start of each unit. Through the unit, a pacing guide will assist them in getting their homework done in a timely manner. Periodically students will be given a homework quiz. This will be a one-page task in which students answer 4-5 selected homework questions in depth with detail. Students will be allowed to use their completed homework on this quiz. If they do not have their homework, they will still be expected to take the homework quiz on the assigned day.

* **RETAKES**: Retakes will be available for BOTH homework quizzes and unit tests. A retake is available for any grade lower than a 92%. The highest grade a student can receive on a retake will be a 92%. To retake a homework quiz, students will be asked to turn in their homework for that unit. All problems assigned up to that point must be completed, showing all work, and corrected. For a test retake, students will need to complete a retake form with their original test attached. All retakes must be completed BEFORE the next homework quiz or unit assessment.

**PLAGIARISM/ACADEMIC OFFENSES:** If a student is caught plagiarizing or cheating they will be required to do the assignment again from the beginning and parents will be notified. It will also be documented. If it happens again, the parents will be notified and the matter will be turned over to administration.

**SUPPLIES:**

* Scientific Calculator (cell phones will not be allowed as calculators. A great option is a TI-30X.)
* 2 Composition graph paper notebook for Math class only.
* Lined paper, pocket folder (to keep homework in), and a good supply of pencils.
* Colored pens, markers, or colored pencils for projects, notes, and grading.
* Glue sticks (we use these a lot!), ruler, and a pair of small scissors
* Face mask and hand sanitizer (optional but highly recommended)