

Math 6th Grade

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Class Overview

Not all students will become mathematicians, engineers, or statisticians, but all students need to be able to think, analyze, and problem solve using skills acquired through the study of mathematics.

We will focus on the eight mathematical practices;

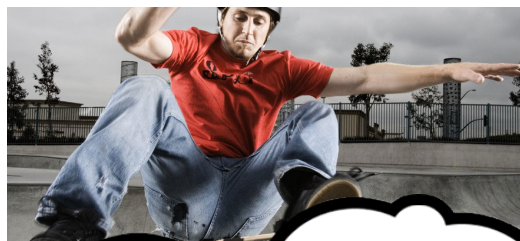
1. Make sense of problems and persevere in solving them.
2. Reason abstractly and quantitatively.
3. Construct viable arguments and critique the reasoning of others.
4. Model with mathematics.
5. Use appropriate tools strategically.
6. Attend to precision.
7. Look for and make use of structure.
8. Look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

Units of Study

In 6th grade math instructional time will focus on the four critical areas:

1. Connecting ratio and rate to whole number multiplication and division using concepts of ration and rate to solve problems.
2. Completing understanding of division of fractions and extending the notion of numbers to the system of rational numbers, which includes negatives.
3. Writing, interpreting, and using expressions and equations.
4. Developing understanding of statistical thinking.

Learners also build on their work with **area and volume** by reasoning about relationships among shapes to determine area, surface area, and volume. They prepare for work on scale drawings and construction, which will tie in with the Engineering and Robotics mini course.



Expectations

Preparation: Come to class on time and with all necessary materials for the class.

Repeated tardies will result in detentions. Bring to each class pencils and pens, highlighter, notebook, Chromebook, and independent reading book.

Behavior & Participation:

Give our full attention to the teacher. Listen to and follow instructions.

Homework: Turn in homework on time. Do it right the first time (DIRTFT). Repeated late homework will result in academic detention. You must turn in ALL homework and projects.

Math Journals

- Students organize, display, and arrange information, making it easier for students to grasp math concepts and master skills.
- Incorporates the use of such skills as comparing and contrasting, recognizing cause and effect, and finding similarities and differences into daily work and long-term projects
- Continues to "immerse" students in previously learned vocabulary and concepts, providing them with a strong foundation that they can build upon with new observations, experiences, and knowledge
- Can be used by students to easily communicate data through graphs, tables, charts, models, and diagrams with me
- Allows students to make their own math journals for recording main ideas, problem-solving strategies, examples, questions that arise during classwork, and personal experiences that occur during learning
- I can use journals as alternative assessment tool to evaluate student progress or by students to evaluate their own progress
- Integrates language arts, the sciences, and social sciences into the study of mathematics
- Provides a sense of student ownership in the mathematics curriculum

Extra Help

You may not always understand all material being covered, but you are expected to put forth your best effort. I am willing to help you if you work hard, both in class and at home. If you need extra help, please talk to me and we will set up a time during MTSS or academic skills. I will also be available after school until 4:00 pm.

If you have questions in the evening about homework you may chat or text before 8 pm.

