8th Grade Math Instructional Plan

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Course Overview

In 8th grade Math, students will focus on developing Pre-algebra skills as well as begin working with a graphing calculator. The 8th grade math team strives to create learning environments where all students can engage with challenging concepts and participate in mathematical discussions. The curriculum follows the Texas Essential Knowledge and Skills (TEKS) for 8th grade, covering these topics:

- Numbers and Operations: Extending previous knowledge of sets and subsets to include rational and irrational numbers, approximating irrational numbers on a number line, and converting between standard notation/ scientific notation.
- Equations and Inequalities: Writing equations/ inequalities, as well as solving equations.
- Linear Equations: Calculating slope and y-intercept in order to display in a table, graph and equation.
- Geometry: Analyzing figures using concepts like distance, angle, similarity, congruence, transformations, volume, surface area and Pythagorean Theorem.
- Data Analysis: Analyzing bivariate data sets and completing Mean Absolute Deviation.
- Financial Literacy: Developing a basic understanding of financial concepts through simple/ compound interest, as well as setting up a livable budget.

Throughout the year, students will use:

- Interactive Notebooks: Used for vocabulary, notes, independent practice and reflections as well as creating/ analyzing goals.
- StemScopes: MISD curriculum with workbooks.
- Collaborative Learning: Group activities, peer discussion, and independent practice
- I-Ready: To be completed in advisory (split between Math and ELA)

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Classroom Expectations

Our classroom is expected to be a place of learning, academic growth, and student success. Any behaviors that interfere with another student's learning or disrupt the learning environment will be redirected or given consequences. We have high expectations for a wonderful 2026-2027 school year!

Expectation 1: Be prepared with supplies
- Prioritize attendance, be on time
- Be ready to learn everyday

Expectation 2: Participate actively and take responsibility for your learning
- Complete all assigned tasks
- Engage in class discussions, writing tasks, activities, and learning opportunities
- Complete work on time

Expectation 3: Be safe
- Handle calculators and materials with care (destroying class property will result in consequences)
- Report problems to an adult

**Positive reinforcement and clear routines will help students learn and meet these expectations. If expectations are not met, the teacher will first reteach and remind the student(s) of expectations. If a student continues to fail to meet expectations, they will be redirected, then parents will be contacted. If a student is unable to meet expectations after these preventative measures, an office referral will be made.

Attendance Policy & Its Importance

Regular attendance is vital to your child's academic development. 8th grade math lays the foundation for higher-level math concepts. By mastering the fundamental concepts and skills taught in 8th grade, students can set themselves up for success in future math courses and open doors to a wider range of academic and career opportunities. When students attend daily, they stay current with new skills, deepening their knowledge, develop thinking skills, and practice important habits that support lifelong learning.

Please notify the school if your child will be absent. Frequent or extended absences may make it more difficult for your child to learn necessary foundational skills that ensure student success this year and in future school years.

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Learning Objectives:

- Understanding and representing real numbers,including squares and square roots, and converting between fraction and decimals.
- Working with proportional relationships, slope, and graphing linear equations
- Solving multi- step equations, understanding and using variables in mathematical expressions, and solving systems of linear equations
- Grasping the concepts of a function, representing functions in various ways (tables, graphs, and equations), and understanding the relationship between independent and dependent variables
- Performing and understanding transformations such as translations, reflections, rotations, and dilations
- Applying the Pythagorean theorem to solve problems involving right triangles
- Calculating the volume of cylinders, cones, and spheres
- Learning about financial concepts and skills relevant to personal finance

Course Resources

- Chromebook (class set, stays in classroom)
- Journals and writing utensils (part of the school supply list)
- StemScopes (Accelerated Learning)
- I-Ready
- TI-84+ C (provided by Midland ISD for use in class) *mistreating calculators could result in being replaced by the student/ family

Grading Policy

According to Midland ISD Grading Policy:
Major assignments - 60% Minor assignments - 40%
Semester exams count as 15% toward the final semester grade

Supplies Needed

- Composition books/ spiral (student preference)
- 1 package of index cards (3x5 for classroom use)
- 1 package of notebook paper (for classroom use)
- Pencils
-1 tissue, clorox wipes, and hand sanitizer (optional 1 time donation to the advisory classroom)

Please feel free to reach out with any questions or concerns. We are excited to work together to make this a successful year of learning!

8th Grade Math Instructional Plan

Please fill out and return to your teacher after you and your parent/ guardian have read the instructional plan.

We acknowledge that we have read and that we understand the expectations in 8th Grade Math. We agree to contact the teacher should we have any questions or concerns regarding this instructional plan.

Parent Name: _____

Student Name: _____

Parent Cell Phone Number: _____

Parent E-Mail: _____

Best way to contact parent: _____

Parent Signature : _____

Student Signature: _____

Date:_____