



8th Grade Math

Instructional Plan: Fall Semester

Course Overview

Welcome to 8th grade Science.

Contact Information

Teacher Name:

Email: @midlandisd.net

Phone: 432-240-4700

Classroom Expectations

Be Respectful – Listen. Use kind words. Treat everyone and everything with care.

Be Responsible – Be on time. Bring what you need. Start bellwork immediately.

Follow Directions – Do what's asked the first time. Raise your hand to speak.

Stay Focused – Sit where you're supposed to. Keep your area tidy. Participate.

Stay Positive – Try your best. Learn from mistakes. Keep growing.

Attendance Policy & Its Importance

Attendance Is the First Step to Success

Coming to school every day ensures every student gets the instruction, connections, and support they need to learn, belong, and grow. Missing just a few days can create gaps in learning—but showing up builds confidence, community, and a path toward long-term achievement.

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.

Learning Objectives

By the end of the first semester, students will be able to:

TEKS

1. Number and operations

- Real Numbers: Students extend their knowledge of sets and subsets to classify real numbers, including rational and irrational numbers.
- Approximating Irrational Numbers: They learn to approximate the value of irrational numbers, including π and square roots of numbers less than 225, and to locate these approximations on a number line.
- Scientific Notation: Students practice converting between standard decimal notation and scientific notation, and comparing numbers written in scientific notation.



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2. Proportionality

- Students learn about proportional and non-proportional relationships and how to represent them.
- They analyze tables and graphs to find the slope and y-intercept.
- Students represent proportional relationships with $y = kx$ and non-proportional relationships with $y = mx + b$ where $b \neq 0$.
- The concept of functions is introduced, with students identifying functions using various representations.

3. Expressions, equations, and relationships

- Students solve one-variable equations with variables on both sides, including those representing real-world problems.
- They apply the Pythagorean theorem using models and diagrams.
- Relationships between angles and triangles are explored, including those formed by parallel lines cut by a transversal.

4. Measurement and Data

- Students create and interpret scatter plots, identify trends, and use trend lines for predictions.
- Mean Absolute Deviation (MAD) is used to analyze simulated samples.

5. Personal financial literacy

- Students calculate and compare simple and compound interest.
- They estimate college costs and create savings plans.
- Throughout the semester, mathematical process standards are emphasized, such as applying math to everyday situations, problem-solving, using tools, and communicating ideas.

Course Resources

- Stem Scopes
- Khan Academy

Grading Policy

According to Midland ISD Grading Policy:

[Student Handbook](#)

School-wide System of Communication

Families can reach out by email, phone, or messages during school hours. We are to hear, to listen, to answer questions, and support you both.

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!



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Please fill out the portion below and return this portion to your teacher.

We acknowledge that we have read and that we understand the expectations in [grade level or course]. We agree to contact the teacher should we have any questions or concerns regarding this instructional plan.

Parent Name: _____

Student Name: _____

Cell Phone Number: _____

E-Mail: _____

Parent Signature : _____

Student Signature: _____

Date: _____