



# Fourth Grade Instructional Plan for Math and Science: First Semester

## Course Overview

Fourth Grade Math and Science is designed to develop proficient learners through a structured approach. Students will build strong foundational skills in fluency, vocabulary, and comprehension in math and science. Instruction will be explicit, systematic, and scaffolded to support all learners in mastering grade-level expectations.

### Throughout the year, students will understand in Math:

- Place value and number sense
- Addition, subtraction, multiplication, and division
- Fractions and decimals
- Geometry and measurement
- Data analysis
- Patterns and algebraic reasoning
- Personal financial literacy

### Throughout the year, students will understand in Science:

- Scientific investigation and reasoning
- Matter and energy
- Force, motion, and energy
- Earth and space
- Organisms and environments

## Contact Information

Teacher Name: Samantha Walther

Email: [samantha.walther@midlandisd.net](mailto:samantha.walther@midlandisd.net)

Phone: 432-240-7600

Conference: 12-12:45

## Classroom Expectations

Our classroom is a safe learning place, which encourages teamwork, positive feedback, and academic achievement. All students will be respectful to others. We will be good listeners to the teacher and to other's ideas. All students will be hard working contributors in the process of getting their education in order to be successful and reach their full potential.

Expectation 1: Be respectful

- Use appropriate voice level
- Raise your hand, and wait your turn to speak
- Listen to all instructions and directions
- Stay in your seat and wait for teacher permission

Expectation 2: Be responsible

- Complete all assigned tasks
- Be prepared: Have all necessary materials

Expectation 3: Be safe

- Always keep your hands and feet to self
- Walk at all times
- Report problems to an adult

Expectation 4: Be ready to learn and try your best every day

- Come to class on time
- Prioritize daily attendance

Positive reinforcement and clear routines will help students learn and meet these expectations.



# Fourth Grade Instructional Plan for Math and Science: First Semester

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. Fourth grade is a pivotal year in math and science- students see and increase in rigor and pace. When students attend daily, they stay current with new skills, deepening their knowledge of the world, 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.

## Learning Objectives in Math

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

- Represents the value of the digit in whole numbers through 1,000,000,000 and decimals to the hundredths using expanded notation and numerals.
- Compare and order whole numbers to 1,000,000,000 and represent comparisons using the symbols  $>$ ,  $<$ , or  $=$ .
- Add and subtract whole numbers and decimals to the hundredths place using the standard algorithm.
- Solve with fluency one- and two-step problems involving multiplication and division, including interpreting remainders.
- Solve with fluency one- and two-step problems involving multiplication and division, including interpreting remainders.
- Represent multi-step problems involving the four operations with whole numbers using strip diagrams and equations with a letter standing for the unknown quantity.
- Represent the value of the digit in whole numbers through 1,000,000,000 and decimals to the hundredths using expanded notation and numerals and relate decimals to fractions that name tenths and hundredths.
- Add and subtract whole numbers and decimals to the hundredths place using the standard algorithm.
- Represent data on a frequency table, dot plot, or stem-and-leaf plot marked with whole numbers and fractions.
- Solve problems that deal with measurements of length, intervals of time, liquid volumes, mass, and money using addition, subtraction, multiplication, or division as appropriate.

## Learning Objectives in Science:

- Demonstrate safe practices and use of safety equipment during classroom and outdoor investigations as per TEA standards.
- Plan and conduct descriptive investigations, ask well-defined questions, and select appropriate tools.
- Analyze, evaluate, and critique scientific explanations using evidence and logical reasoning.
- Classify and describe matter by observable physical properties—including mass, volume, state (solid, liquid, gas), temperature, magnetism, and buoyancy.



## Fourth Grade Instructional Plan for Math and Science: First Semester

- Demonstrate and describe how electrical energy travels through closed circuits to produce light and thermal energy.

### Course Resources

- Chromebook (provided by Midland ISD)
- Journals and writing utensils (part of the school supply list)
- STEMscopes, SAAVAS Science, IXL and i-Ready

### Grading Policy

*According to Midland ISD Grading Policy:*

Teachers are expected to use a variety of types of student work performance to assess student achievement. The teacher should choose those which are most appropriate to the class, the students, and the TEKS/SEs under study.

Students will receive minor assignment feedback within three to five school days. Major assignments such as District Check for Understandings and larger projects shall receive a final cumulative grade within ten school days. However, the teacher shall award interim minor assessment grades for individual steps in the process.

Major assignments - 40% Minor assignments - 60% which may include homework; however, homework may not constitute more than one fourth of the minor assessment summative grade.

### Class DoJo (School-wide System of Communication)

Our campus uses ClassDoJo to communicate with families. Please ensure you join our class for important updates.

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!

---

### **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 Fourth Grade Math and Science. 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: \_\_\_\_\_