

4th Grade

Mathematical Practices

- Makes sense of problems and perseveres in problem solving.
- Explains thinking process and understands the reasoning of others.
- Works accurately using appropriate tools.
- Looks for and makes use of patterns.

Skills Overview

By the end of fourth grade, students should be able to:

- Use the four operations with whole numbers to solve problems, represent comparisons, and solve multi-step word problems.
 - Multiply by one and two-digit numbers.
 - Know basic multiplication and division facts (1-12).

- Create and understand patterns that follow a given rule.
- Understand multi-digit whole numbers by comparing ($<$, $>$, $=$) and rounding.
- Accurately add and subtract multi-digit whole numbers and multiply by one and two-digit numbers.
- Compare and order fractions and model equal fractions.
- Add and subtract fractions with like denominators.
- Multiply fractions by a whole number.
- Understand and relate fractions to decimals and vice versa.
- Describe the relationship between two sets of related data such as ordered pairs in a table.
- Understand congruency, symmetry, classifying angles (right, acute, obtuse), lines (parallel, perpendicular, intersecting), flips (reflections), and turns (rotations).
- Identify length, capacity, weight, area, perimeter and choose the appropriate unit of measure.

This brochure explains...

Dike-New Hartford CSD

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Science

Fourth grade students use inquiry skills (questioning, investigating, gathering, and analyzing data, developing and communicating explanations and out-comes) to learn and apply science concepts.

Specific Units Include:

- Vertebrates and invertebrates
- Rock and minerals
- Sound and light
- Digestive and excretory systems

By the end of fourth grade your child should be able to:

- Understand and apply knowledge of fossils and the evidence they provide of past life on earth.
- Understand and apply knowledge of sound and light.

- Understand and apply knowledge of organisms and their environments.
- Understand and apply knowledge of basic human body systems and how they work together.

Literacy and Language Arts Essential Concepts and Skills

It is the intent of the DNH School District that our Reading and Language Arts curriculum builds a foundation for college and career readiness for all of our students. Students need to be able to read with sufficient accuracy and fluency to support comprehension of a wide variety of reading materials. They need to be able to use writing as a tool for learning and communicating by using the conventions of standard English grammar, usage, and mechanics. Students also need to develop and refine speaking and listening skills in order to acquire and share knowledge.

By the end of fourth grade your child should be able to:

Literature:

- Answer questions and draw conclusions.
- Use context clues to clarify meaning of unknown words.
- Describe in depth the story elements: character, setting, and plot.
- Use a full range of comprehension strategies.
- Read and understand grade level text, independently and proficiently.
- Read with accuracy and fluency to support comprehension.

Writing:

- Write for a variety of purposes: opinion, research report, and narrative.
- Gather information from print, digital sources, and experience.

Conventions of Standard English:

- Use correct grammar in usage of writing and speaking.
- Use capitalization, punctuation, and spelling correctly.

Speaking and Listening:

- Participate in classroom discussions.
- Paraphrase information presented in text or orally.
- Report on a topic or text.
- Participate in classroom presentations.