

EARTH SCIENCE

Earthquakes and Volcanoes

- Understand basic facts about earthquakes and volcanoes and how they have shaped the land.
- Understand about earthquake hazards and safety.
- Understand why the Earth's crust moves.

Rocks and Minerals

- Understand the properties of minerals.
- Understand how to classify rocks.
- Understand the rock cycle.

Weathering, Erosion, and Deposition

- Understand how weathering and erosion have affected the Earth's surface, which includes forces of water, glaciers and wind.

Earth's Resources

- Understand the importance of preserving the Earth's natural resources and energy sources in air, on land, or in water.

PHYSICAL SCIENCE/CHEMISTRY

- Describe and measure matter.
- Understand the particles of matter.
- Understand how matter changes.

World Languages: French/Spanish

Broad goals in World Languages involve the continued development of skills involving oral comprehension, speaking, and cultural awareness that were begun in Grades 3-5 at Center School.

Classes meet daily for one quarter during one of the Unified Arts time slots. Students may elect one or both languages, or may opt not to take a World Language in Grade 6.

Topics include: Phonics, numbers, common phrases and expressions, geography, culture, family, animals, parts of the body, colors, calendar (days, months, seasons, and weather), time, and classroom vocabulary.

Superintendent of Schools

Franklyn G. Bass, Ph.D. - Superintendent

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Superintendent

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Windham School District Windham Middle School Grade 6 Curriculum



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Language Arts / Reading

Broad goals for Language Arts/Reading address the acquiring of interactive skills, as well as the processes of reading, writing, speaking, listening, and viewing through the study of literature and the application of language arts.

The Language Arts/Reading curriculum enables students to:

- Read a variety of fiction and informational texts as prescribed by the teacher, and independently for knowledge and entertainment.
- Use different reading strategies to organize thoughts, develop critical thinking skills and comprehend fiction/informational text.
- Relate new ideas and information in prior knowledge and experience in writing and discussion with peers.
- Define/compare/analyze features of different types of literature/genres.
- Use a variety of functional formats in writing for intended purposes.
- Use writing process strategies independently and with peers to write more precisely and effectively.
- Demonstrate understanding of the elements of literature.
- Show understanding of figurative language, imagery, and sound devices in writing.
- Listen critically and respond to comments and questions using details and examples to support an opinion.
- Understand and employ the conventions of English grammar.

Mathematics Broad goals for Mathematics include acquiring skills in problem solving and reasoning, recognizing and exploring mathematical connections, numeration, operation, and number theory, geometry and measurement, statistics and probability and mathematics of change.

The Mathematics curriculum enables students to:

Numbers and number theory

- Name and identify a decimal, given a physical representation.
- Given a decimal representation in 10ths or 100ths, write an equivalent fraction.
- Given an integer or positive rational number, represent the number with a model.
- Explain the use of numbers in everyday contexts.
- Given a set of fractional models, name and write those that represent equivalent fractions.
- Use order relations for integers and positive numbers.

Communications and Connections

- Demonstrate proficiency with mathematical operations of integers and percent.
- Combine like terms in algebraic expressions and in solving equations and inequalities.
- Given a pair of fractions, determine which is larger using models.
- Use order relations for integers and positive numbers.
- Apply number theory to factoring of whole numbers and equivalency of positive and rational numbers.
- Learn the rules of divisibility for numbers 2,3,5, 6, 9, 10.

Geometry and Measurement

- Identify, describe, and name properties of triangles, quadrilaterals, and other polygons.
- Identify point and line symmetry in polygons.
- Measure and classify angles.
- Identify and draw congruent and similar figures.

Data Analysis, Statistics and Probability

- Use multiple representations to display equivalent data.
- Select appropriate data to solve simulations and real world problems
- Explore various uses of mean, median and mode.
- Use sampling techniques to make predictions.
- Given a sample, find the probability of events.

Functions and Algebra

- Recognize, describe, analyze, extend and create a wide variety of patterns using models, tables graphs, simple rules and manipulatives.
- Describe a pattern orally or in writing.
- Explore functional relationships to describe how a change in one quantity results in change of another.
- Explore functions in geometry.
- Explore and analyze properties and relationships related to prime and composite numbers, rational numbers, multiple factors and exponents.
- Apply associative, commutative, and distributive properties in problem solving.
- Apply multiplicative and additive properties of zero.
- Understand multiplication as repeated addition and division as repeated subtraction.
- Understand that the product of two whole numbers greater than 1 is greater than either of the factors.
- Understand that when dividing 2 whole numbers that are greater than 1, the quotient is smaller than the dividend.

Social Studies Broad goals for Social Studies address acquiring the knowledge, concepts, skills, and processes of civics and government, economics, geography, and history.

Investigating Canada, Mexico, East Asia, Russia, and Southwest Asia, the Social Studies curriculum enables students to:

Civics

- Understand that the U.S. Constitution provides a framework for the U.S. Government.
- Be aware of the various systems of government, levels of leadership, and branches of government in place throughout the world.

Economics

- Understand the impact of technology on the development of specific cultures outside of the U.S.
- Understand the development of industry in the U.S. and how it affects our nation and other nations throughout the world.
- Be aware of the various economic systems based on capital and labor in place around the world.

Geography

- Review the geography of the United States.
- Understand the impact of U.S. geography and natural resources on specific cultures throughout the world.
- Be aware of the impact of geography and natural resources of specific regions on the development of particular nations within those regions.

History

- Review the interconnection of economic, political, and social development in U.S. history.
- Understand that the facts of history, and causes and effects, affect people and governments in various cultures throughout the world.

Science Broad goals for Science address acquiring the knowledge, concepts, skills and processes of the life, earth and space, and physical sciences.

The Science curriculum enables students to:

LIFE SCIENCE

Ecology

- Understand how living things interact within their environment.
- Understand how energy and matter flow and cycle through ecosystems.