

Mathematics

Students in 6th grade are placed into one of two math classes: 6th Grade Math or 6th Grade Accelerated Math

6th Grade Math

Students expand their mathematics vocabulary as well as their problem solving strategies. They also practice the art of mathematical communication, both orally and in writing. Mastery topics in 6th Grade Math include: ratio and proportional reasoning; fraction and decimal operations; an extension of the number system to include rational numbers; and an introduction to statistical thinking.

6th Grade Accelerated Math

Students in this faster paced course learn the skills and concepts included in 6th Grade Math with an expanded emphasis on problem solving. In addition, students master the 7th grade geometry standards as well as integer operations.

Unified Arts

The Center School Sixth Grade curriculum is supported by our Unified Arts Team of teachers in Art, Music, Physical Education, and Library. Our students meet weekly with our UA teachers to enhance their educational experience.

- **Art**-1 Class Period Per Week
- **Music**-1 Class Period Per Week
- **P.E.**-2 Class Periods Per Week
- **Library**-1 Class Period Per Week
- **Intro to Global Concepts**-1 Class Period Per Week.

This project-based class builds upon the fifth grade year, affording students the opportunity to examine in depth Five Global Concepts: Change, Independence, Culture, Scarcity, Strengths. This class extends to students the opportunity to apply their content learning and skill acquisitions from their other classes.



Curriculum Brochure

Sixth Grade

Windham School District
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Our mission is to be a continuously improving, learning community, providing quality services to enable all children to master the knowledge and competencies necessary to function skillfully throughout life.

2023-2024

Social Studies

Sixth Grade Social Studies is focused on World Geography and Global Issues centered around the Essential Question: how does where someone lives affect how they live? The focus is on both the physical and human geography of the world. Students will learn about different regions of the world and some of the current issues that face these regions, as well as their impact on the world at large. 6th Grade will focus on the following regions: *North America, Latin America, Europe, Asia, Africa, Australia.*

- Location refers both to absolute location indicated by longitude and latitude and to relative location, indicated by direction, distance, or travel time.
- The concept of place refers to the physical and man-made characteristics of a place such as a town or city.
- Human Environment Interaction encompasses the many ways in which people have adapted to their surroundings or altered them for economic reasons.
- The movement of people, goods, and ideas within an environment is ever changing and fluid.
- Region refers to ways of categorizing areas of the earth, such as by climate, religion, language and/or ethnicity.

Science

Science is divided into three primary areas; life, earth & space, and physical. In Grade 6 the primary area of study is Earth Science.

Earth's Place in the Universe. In this area, students will be able to:

- Develop and use a model of the Earth-sun-moon system to describe cyclic patterns
- Develop and use a model to describe the role of gravity within galaxies and the solar system.
- Analyze and interpret data
- Construct a scientific explanation based on evidence from rock strata.

Earth's Systems. In this area, students will be able to:

- Develop a model to describe the cycling of Earth's materials and the flow of energy
- Construct an explanation based on evidence for how geoscience processes have changed Earth's surface
- Analyze and interpret data
- Develop a model to describe the cycling of water through Earth's systems
- Collect data to provide evidence for how the motions and complex interactions of air masses results in changes in weather
- Develop and use a model to describe how unequal heating and rotation of the Earth cause patterns of atmospheric and oceanic circulation

Earth and Human Activity. In this area, students will be able to:

- Construct a scientific explanation based on evidence of the uneven distributions of Earth's mineral, energy, and groundwater
- Analyze and interpret data on natural hazards.
- Apply scientific principles to design a method for monitoring and minimizing a human impact on the environment.
- Construct an argument supported by evidence
- Ask questions to clarify evidence of the factors that have caused the rise in global temperatures.

English Language Arts

English Language Arts (ELA) comprises four areas; reading, writing, language, and speaking & listening. Within these four areas there are many categories, which when all brought together encompass student literacy.

In Sixth Grade, these are the skills and understandings we focus on in each area:

Reading:

- Read closely from complex literary and informational texts.
- Cite textual evidence to support analysis of what the text says explicitly as well as inferences drawn from the text.
- Analyze text structure and the author's point of view.
- Determine a theme or central idea and how it is conveyed through particular details; summarize the text.
- Determine the meaning of words and phrases in the text, including figurative language.

Writing:

- Write extended argumentative, informative and narrative pieces with details and proper grammar, spelling, and punctuation.
- Complete research projects that include several sources to answer a focused question.
- Cite evidence and sources following a standard format.
- Use technology to produce writing pieces and presentations.

Language:

- Use academic and content-specific vocabulary.
- Use context, background information and strategies to determine the meaning of unknown and multiple-meaning words.

Speaking and Listening:

- Interpret information presented in diverse media and formats and explain how it contributes to a topic under study.
- Actively participate in collaborative discussions by being prepared and thoughtful about the topic being covered.
- Present claims and findings and evaluate a speaker's argument about specific claims.