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American Revolution and the eventual formation of an independent nation, the United States of America

Examine the growth of the United States as more and more Americans moved westward

Realize the changes that led to the Civil War

Study the changes that took place in America during the Reconstruction period: settlement of the Great Plains, the Industrial Revolution, and the emergence of the United States as a world power

Demonstrate an understanding of the nation's geography

Utilize map and globe skills to locate major oceans, continents, states, and their capitals

**Science: Grade 5**



**Earth Science**

Weather

Earth's atmosphere and the processes that create weather

Local and regional weather conditions and the prediction of weather related events through the use of weather tools

Earth's meteorological processes and their impact on our everyday lives

Astronomy

History of space exploration and how it has evolved over time

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Earth, Moon, Sun relationships, what causes day and night, the seasons of the year, shadows, and tides

Constellations and their relevance and historical role

Modern uses of astronomy tools such as satellites, probes, etc.

**Physical Science**

Atoms, elements and the Periodic Table

Basic energy conversions such as chemical to electrical

Electromagnets and how magnetism and electricity are related

The importance of electricity in our everyday lives

Electrical circuits and their use in energy transfer



**Windham Center School**

2 Lowell Road  
Windham, NH

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**Windham School  
District**



**Windham Center  
School**

**Grade 5  
Curriculum**

## Language Arts Grade 5



Broad goals for English Language Arts education in the Windham public schools address acquiring the interactive skills and processes of reading, writing, speaking, and listening through a balanced literacy program which includes the study of literature and the application of language arts.\*

### The standards-based language arts curriculum includes:

Using questioning, reviewing, revising and re-reading to enhance overall comprehension

Enriching vocabulary

Accessing reference materials

Experiencing a variety of genres

Strengthening reading strategies to build comprehension, study skills and independent reading

Increasing fluency with appropriate phrasing and expression

Writing effectively for a variety of purposes

Identifying the parts of a sentence

Using punctuation effectively

Recognizing parts of speech

Building an understanding of figurative language including similes, metaphors and personification

Writing a variety of genres

Recognizing and implementing phonetic and spelling rules/patterns

Participating in various practice activities throughout each week to improve spelling skills

Expanding word study skills through the analysis of compound words, contractions, prefixes, suf-

fixes, plurals, base words, and possessives

*\*At each grade level, concepts are further developed in depth and breadth through increasing text complexity*

## Mathematics: Grade 5



The Fifth Grade Mathematics curriculum, in keeping with the New Hampshire State Frameworks, aims to deepen the student's understanding of basic skills while strengthening problem solving and reasoning skills.

### Problem Solving & Reasoning:

-Formulate and solve problems that require the use of strategies

-Interpret, reason, solve, and verify multi-step problems

-Use manipulatives, graphic organizers, and calculators

-Justify thinking through examples and explanations.

-Explore patterning through fractions, decimals, and geometric shapes

### Communication & Connections:

-Explain, analyze, and evaluate mathematical conclusions

-Recognize, develop, and explore mathematical connections

-Use mathematical skills, concepts, and applications in other disciplines.

### Numbers and Operations

-Develop and use order relations for integers and positive rational numbers

-Explore divisibility, whole numbers, decimals, fractions, and percents

-Understand number properties

-Fact fluency up to 12

-Multiplication and division of whole numbers

-Add and subtract fractions and decimals

-Use mental computation and estimation strate-

gies

### Geometry and Measurement:

-Classify and compare geometric shapes

-Measure and classify angles

-Develop spatial sense

-Introduce standard and metric units of measurement

### Data, Statistics, and Probability:

-Collect, organize, describe, display, and interpret data

-Explore various uses of mean, median, and mode

-Find probabilities of events

### Functions and Algebra:

-Recognize, describe and extend a pattern using models

-Identify relationships between prime and composite numbers

-Solve simple linear equations

-Explore algebraic concepts and processes

-Explore the use of variables, expressions, equalities, and inequalities

-Analyze tables and graphs.

## Social Studies: Grade 5

Broad Goal: Students will gain an understanding and appreciation for the founding and growth of our nation.



Students will:

Compare and contrast the three distinct English colonies that developed in North America

Learn how life in 1700's America differed greatly from life back in Europe

Realize how lifestyle differences led to the