

## 5th Grade Language Arts

*Fifth Grade students will receive instruction in reading, writing, and listening, speaking and viewing. By the end of 5th grade, students will be able to:*

- Read and comprehend texts from a variety of genres and a variety of subject areas
- Construct new knowledge by making connections between new and previously held ideas
- Write for a variety of purposes narratives, persuasive and informative
- Write a five paragraph Essay
- Write a Research Paper (Complete with outline, bibliography and note cards)
- Demonstrate usage of subject/verb agreement
- Identify and use parts of speech effectively in written and oral language
- Define a problem or conflict in text and determine an appropriate solution
- Use background knowledge and experiences to draw conclusions and make valid generalizations
- Use evidence/reasoning to support opinions and solutions to problems

## 5th Grade Mathematics

*Fifth Grade students will be actively engaged in developing mathematical understandings in real and relevant contexts. By the end of 5th grade, students will be able to:*

- Classify counting numbers into subsets (odd/even, prime/composite), find factors and multiples, and use divisibility rules
- Find equivalent fractions and add/subtract fractions/mixed numbers with unlike denominators
- Compute area and volume of simple geometric figures and measure capacity
- Understand congruence and the relationship of circumference to diameter of a circle
- Use Customary and Metric units of measurement
- Represent and investigate mathematical expressions algebraically by using variables
- Discuss advantages and disadvantages of various types of graphs (including circle graphs)
- Divide Whole Numbers
- Problem solve, develop arguments, use language of mathematics, make connections, and communicate
- Exhibit the skills of addition, subtraction, multiplication and division of decimals
- Demonstrate the use of decimals in relation to place value

## 5th Grade Science

*Fifth Grade students will use inquiry to focus on questions about the world around them. By the end of 5th grade, students will be able to:*

- Use records, tables, or graphs to predict patterns of change
- Identify and find examples of constructive and destructive forces while relating the role of technology to monitoring and controlling these forces
- Explain the differences between physical and chemical change
- Classify organisms into groups
- Compare and contrast characteristics of learned behaviors and of inherited traits
- Relate how microorganisms are harmful or beneficial
- Investigate heat and its effects on matter
- Describe Biomes and Habitats
- Investigate and describe States of Matter (atoms, molecules, solutions and mixtures)
- Describe the role of organisms and the flow of energy within an ecosystem
- Describe the role of organisms and the flow of energy within an ecosystem
- Identify factors that affect survival and extinction

## 5th Grade Social Studies

*Fifth Grade students will continue the formal study of World History and the concepts in geography, government, and economics will interface with the study of history. By the end of 5th grade, students will be able to:*

- Explain the impact of location, climate, natural resources and population distribution.
- Evaluate how cooperation and conflict among people influence the division and control of the earth's surface.
- Examine the cultural characteristics of Asia, Africa, Europe and Australia.
- Explain why physical characteristics of place such as landforms, bodies of water, climate, and natural resources act as contributing factors to world settlement patterns.
- Interpret timelines
- Identify cardinal direction including latitude and longitude.
- Identify main idea, detail, and sequence of events, cause and effect in a social studies context.
- Construct a map to explain impact of geography on historical and current event.
- Compare the basic types of economic systems found in the United Kingdom, Germany, Russia, the Middle East and the Far East.
- Draw conclusions and make generalizations based on information from maps.
- Analyze the origins, structures, and interactions of societies in the ancient world from 3500 BC to 500 BC.
- Identify the major achievements of Chinese and Indian societies to 500 AD.
- Examine the political, philosophical, and cultural interaction of Classical Mediterranean societies from 700 BC to 400 AD.