

Fifth Grade Curriculum

Reading

- Extend vocabulary through systematic word study
- Use a thesaurus, dictionary, and/or software to clarify meaning and usage
- Interpret details of character motives and feelings
- Interpret story message
- Predict outcomes
- Draw conclusions
- Identify cause and effect
- Identify and explain inferences
- Generate outlines, timelines, and graphics to represent text information
- Acquire information from nonfiction resources
- Paraphrase and summarize text
- Identify and compare and contrast story elements
- Identify the author's purpose
- Use a variety of strategies when understanding breaks down, such as re-reading, asking questions, and searching for clues
- Make connections and raise questions after reading selections
- Read to gain knowledge of his/her own culture, the culture of others, and the common elements of cultures
- Read with fluency and understanding in texts at appropriate difficulty levels
- Analyze the characteristics of various types of genres
- Adjust reading rate according to the purpose for reading
- Read silently for increasing periods of time
- Conduct research using a variety of sources

Listening/Speaking

- Listen actively and purposefully in a variety of settings
- Listen and speak to gain and share knowledge of his/her own culture, the culture of others, and the common elements of cultures
- Analyze a speaker's message for content, persuasive technique, and tone
- Distinguish between a speaker's opinion and verifiable fact
- Analyze a story and discuss story elements after hearing it read aloud

Writing

- Write to express, discover, record, develop, and reflect on ideas and problem solve
- Write for a variety of audiences
- Write for a variety of purposes, such as lists, letters, stories, poems, book reports, journals, and instructions
- Practice narrative, expository, and persuasive writing
- Generate ideas for compositions
- Develop, revise, and edit compositions using established criteria
- Use increasingly complex capitalization, punctuation, and spelling
- Use singular and plural nouns, pronouns, subject/verb agreement, verb tenses, and singular and plural possessives correctly

Edit a paragraph for cohesiveness, theme, and sequence of ideas
Edit drafts for spelling, grammar, punctuation, capitalization, and usage
Use resources such as a dictionary to edit written words
Evaluate compositions using assigned and established criteria
Identify the most effective features of a piece of writing using criteria generated by the teacher and class
Refine selected drafts to publish for specific audiences
Interpret visual images, messages, and meanings
Compile notes into outlines, reports, and summaries
Choose more precise words to create vivid images
Transfer knowledge of prefixes, suffixes, and their definitions to the spelling of words
Use graphic organizers
Identify the genre in a given passage
Use available technology for word processing, spell checking, and printing
Use writing as a tool for research
Compile a portfolio of writing samples
Apply alphabetization skills to use guide words
Evaluate own writing and the writing of others

Math

Number, Operation, & Quantitative Reasoning

Read, write, compare, and order whole numbers and decimals
Determine the value of a collection of coins and bills
Name fractional parts of a whole or a set
Construct models of equivalent fractions
Compare and order fractions
Add and subtract whole numbers, decimals, fractions, & mixed numbers
Convert between fractions, decimals, and percents
Add and subtract whole numbers & decimals
Multiply and divide whole numbers, decimals, fractions, and mixed numbers
Round numbers to a given place
Estimate whole number and decimal sums, differences, products, and quotients

Patterns, Functions, & Algebraic Thinking

Use patterns to make predictions and solve problems
Identify and create rules for patterns
Use order of operations
Solve linear equations

Geometry & Spatial Reasoning

Identify, describe, and classify 2-D & 3-D shapes
Identify and describe congruent shapes
Identify, describe, and illustrate reflections, translations, and rotations

Measurement

Estimate and measure length using metric and customary units
Find the perimeter, area and/or the volume of a shape
Apply measurement concepts by solving problems using elapsed time
Perform simple conversions within the same measurement system, metric and customary

Probability & Statistics

- Make generalizations based on given data
- Describe data using mean, median, mode, and range
- Graph a given set of data using the appropriate graph

Problem Solving

- Identify math in everyday situations
- Use problem solving strategies
- Justify reasonableness
- Use tools such as real objects, manipulatives, and technology to solve problems

Social Studies

History

- Explain the causes and effects of European colonization in the United States
- Explain how conflict between the American colonies and Great Britain led to American independence
- Summarize the events that led from the Articles of Confederation to the creation of the US Constitution and the government it established
- Identify and discuss political, economic, and social changes that occurred in the United States during the 19th century, such as the Industrial Revolution, westward movement, and the Civil War
- Analyze important issues, events, and individuals of the 20th & 21st centuries in the United States

Geography

- Use geographic tools to collect, analyze, and interpret data
- Describe political, economic, and physical regions in the United States
- Describe landforms, vegetation, and climate of regions of the United States
- Locate the fifty states on a map and identify regions, such as New England and the Great Plains
- Explain the location and patterns of settlement and the geographic factors that influence where people live in the United States
- Describe how people in the United States adapt to and modify their environment, past and present

Economics

- Explain basic patterns of work and economic activities of early societies in the United States
- Identify the economic reasons for exploration and colonization in the United States
- Describe the development and benefits of the free enterprise system in Colonial America and the United States
- Explain and evaluate the effects of supply and demand on consumers, business, industry and agriculture in the United States
- Analyze how people in different parts of the United States earn a living, past and present
- Identify and analyze the effects of immigration, migration, limited resources, geographic factors, and developments in transportation and communication on the economic growth of the United States

Government/Citizenship

- Compare how people organized governments in colonial America
- Identify examples of representative government in colonial America
- Identify important ideas in the Declaration of Independence and the U.S. Constitution
- Explain the basic functions of the three branches of government
- Identify the reasons for and describe the system of checks and balances
- Explain important customs, symbols, and celebrations that represent Americana beliefs and principles and contribute to our national identity

Explain the role of the individual in civic affairs, political parties, and national elections
Identify leaders in national government and explain how to contact them
Describe fundamental rights of American citizens guaranteed in the Bill of Rights and other amendments to the U.S. Constitution

Culture

Identify the contributions of people of various racial, ethnic, and religious groups to the United States
Explain the relationship between the arts and the times during which they were created

Social Studies Skills

Apply critical thinking skills to organize, interpret, and use information
Communicate effectively
Use problem-solving and decision-making processes
Use computer technology to find information, disseminate materials, and create presentations on a given topic

Science

Change

Identify events and describe changes that occur on a regular basis such as in daily, weekly, lunar, and seasonal cycles
Identify the significance of the water, carbon, and nitrogen cycles
Describe and compare life cycles of plants and animals

Living Organisms and Nonliving Objects

Identify traits that are inherited from parents to offspring in plants and animals
Give examples of learned characteristics that result from the influence of the environment

Processes of the Natural World

Interpret how landforms are the result of a combination of constructive and destructive forces such as deposition of sediment and weathering
Describe processes responsible for the formation of coal, oil, gas, and minerals
Identify the physical characteristics of the earth and compare them to the physical characteristics of the moon
Identify gravity as the force that keeps planets in orbit around the sun and the moon in orbit around the earth
Identify past events that led to the formation of the earth's renewable, non-renewable, and inexhaustible resources
Represent the natural world using models and identify their limitations including physical models that demonstrate energy, force, and buoyancy

Adaptations

Compare the adaptive characteristics of species that improve their ability to survive and reproduce in an ecosystem
Analyze and describe adaptive characteristics that result in an organism's unique niche in an ecosystem
Predict some adaptive characteristics required for survival and reproduction by an organism in an ecosystem

Scientific Investigation and Research

Demonstrate safe, environmentally appropriate and ethical practices during field and laboratory investigations
Make wise choices in the use and conservation of resources and the disposal of or recycling of materials

Scientific Inquiry and Critical Thinking

Plan and implement descriptive and simple experimental investigations including asking well-defined questions, formulating testable hypotheses, and selecting and using equipment and technology

Collect information by observing and measuring

Analyze and interpret information to construct reasonable explanations from direct and indirect evidence

Communicate conclusions supported by data

Construct graphs, tables, maps, models, and charts to organize, examine, and evaluate information

Analyze, review, and critique scientific explanations including hypotheses and theories as to their strengths and weaknesses using scientific evidence and information

Draw inferences based on information related to promotional materials for products and services

Represent the natural world using models and identify limitations such as a terrarium and aquarium

Collect and analyze information using tools including calculators, microscopes, cameras, safety goggles, sound recorders, computers, thermometers, hand lenses, meter sticks, rulers, timing devices, hot plates, collecting nets, balances, magnets, and compasses

Demonstrate that repeat investigations may increase the reliability of results

Properties, Patterns, and Systems

Describe some cycles, structures, and processes that are found in a simple system

Describe some interactions that occur in a simple system

Physical Science

Differentiate among forms of energy including light, heat, electrical, and solar energy

Identify and demonstrate everyday examples of how light is reflected, such as from tinted windows, and refracted, such as in cameras, telescopes, and eyeglasses

Demonstrate that electricity can flow in a circuit and can produce heat, light, sound, and magnetic effects

Verify that vibrating an object can produce sound

Classify matter based on its physical properties including magnetism, physical state, and the ability to conduct or insulate heat, electricity, and sound

Demonstrate that some mixtures maintain the physical properties of their ingredients

Identify changes that can occur in the physical properties of the ingredients of solutions, such as dissolving sugar in water

Observe and measure characteristic properties of substances that remain constant such as boiling points and melting points