



Fourth-Grade • first grading period Learning Outcomes

This publication is designed to accompany fourth-grade report cards.

Fourth-Grade Information

This publication describes what was taught during the first nine weeks of school. It is designed to help parents better understand report card categories. Students are evaluated on each item listed under language arts, math, science and social studies.

In addition to the skills and concepts listed here, teachers may choose to review previously taught standards or may adjust the order of what is taught in order to incorporate project-based learning or other multidisciplinary activities.

Report cards may include categories that are marked NA because those skills or concepts were not assessed during this grading period. NA categories are not included in this publication.

Language Arts • Reading

Applies word-analysis skills

- Use context to clarify meanings of unfamiliar words
- Use knowledge of synonyms, antonyms and homophones
- Develop vocabulary by listening to and reading a variety of texts
- Use vocabulary from other content areas

Demonstrates comprehension of fictional texts, narrative nonfiction and poetry

- Explain the author's purpose
- Describe how the choice of language contributes to the author's purpose
- Describe the relationship between text and previously read materials
- Identify sensory words
- Make, confirm or revise predictions
- Use reading strategies throughout the reading process to monitor comprehension
- Read with fluency and accuracy

Demonstrates comprehension of nonfiction texts

- Use text structures, such as type, headings and graphics, to predict and categorize information in both print and digital texts
- Explain the author's purpose
- Distinguish between fact and opinion
- Use prior knowledge and build additional background knowledge as context for new learning
- Use reading strategies throughout the reading process to monitor comprehension
- Read with fluency and accuracy

Language Arts • Writing

Writes for a variety of purposes

- Identify intended audience
- Focus on one aspect of a topic
- Use a variety of prewriting strategies
- Organize writing to convey a central idea
- Recognize that different modes of writing have different patterns of organization
- Write a clear topic sentence focusing on the main idea
- Write two or more related paragraphs on the same topic
- Use transition words for sentence variety
- Use elements of style, including word choice and sentence variation
- Revise writing for clarity of content using specific vocabulary and information
- Include supporting details that elaborate main idea

Edits writing for correct grammar, capitalization, spelling, punctuation, sentence structure and paragraphing

- Use subject-verb agreement
- Use commas in series, dates and addresses
- Use correct spelling for frequently used words, including homophones
- Use singular possessives

Demonstrates comprehension of information resources to research a topic

- Construct questions about a topic
- Collect information from multiple resources including online, print and media

Demonstrates growth in word study knowledge and applies it to writing

Mathematics

Number and Number Sense

- Identify orally and in writing the place value for each digit in a whole number expressed through millions
- Compare two whole numbers, expressed through millions, using symbols ($>$, $<$ or $=$)
- Round whole numbers expressed through millions to the nearest thousand, ten thousand and hundred thousand
- Compare and order fractions and mixed numbers
- Represent equivalent fractions
- Identify the division statement that represents a fraction

Fourth-Grade Information continued

Computation and Estimation

- Use strategies to fluently find products and quotients for basic multiplication and division facts
- Explore multiples and factors

Probability and Statistics

- Collect, organize, display and interpret data from a variety of graphs — especially line graphs and bar graphs

Patterns, Functions and Algebra

- Recognize, create and extend numerical and geometric patterns

Science

Scientific Investigation/Reasoning/Logic

- Differentiate between observations, conclusions, inferences and predictions
- Analyze and sort objects/events into categories and construct graphs based on characteristics/properties
- Select appropriate instruments used to measure elapsed time, length, mass, volume and temperature
- Make predictions/inferences and draw conclusions based on data from a variety of sources
- Identify the independent, dependent and constant variables in a simple experiment
- Create hypotheses, stated in terms of a cause and effect relationship (If ..., then)
- Collect, record, graph/chart and analyze data
- Identify unexpected/unusual data
- Present results of an experiment using graphs, pictures, statements and numbers
- Construct a model to clarify an explanation, demonstrate a relationship or solve a need

Earth/Space Systems and Cycles

- Compare and contrast natural and human-made resources
- Describe characteristics of rivers, lakes and bays and name an example of each in Virginia
- Create and interpret a model of a watershed
- Evaluate this statement: "We all live downstream."
- Identify watershed addresses
- Recognize the importance of Virginia's mineral resources (coal, limestone, granite and sand and gravel)
- Appraise the importance of natural and cultivated forests in Virginia
- Describe a variety of soil and land uses important in Virginia
- Design an investigation in which a thermometer is used to compare air temperatures over a period of time
- Analyze the changes in air pressure occurring over time, using a barometer and predict what the changes mean in terms of changing weather patterns
- Differentiate, illustrate and label the types of weather associated with high and low pressure air masses
- Illustrate and label high and low pressure air masses and warm and cold fronts
- Differentiate between cloud types and associated weather
- Compare and contrast the formation of different types

of precipitation

- Describe the weather conditions associated with thunderstorms, hurricanes and tornadoes and explain when each would occur
- Analyze and report information about temperature and precipitation on weather maps
- Measure wind speed, using an anemometer
- Measure precipitation with a rain gauge
- Design an investigation in which weather data are gathered using meteorological tools and charted to make predictions

Social Studies

Geography

- Demonstrate knowledge of the physical geography and native peoples, past and present, of Virginia by
 - » locating Virginia and its bordering states on maps
 - » locating and describing Virginia's Coastal Plain (Tidewater), Piedmont, Blue Ridge Mountains, Valley and Ridge and Appalachian Plateau
 - » locating and identifying water features important to the early history of Virginia (Atlantic Ocean, Chesapeake Bay, James River, York River, Potomac River, Rappahannock River, Lake Drummond and Dismal Swamp)
 - » locating three American Indian language groups (Algonquian, Siouan and Iroquoian) on a map of Virginia
 - » describing how American Indians related to the climate and their environment to secure food, clothing and shelter
 - » describing how archaeologists have recovered new material evidence at sites including Werowocomoco and Jamestown
 - » identifying and locating the current state-recognized tribes
- Demonstrate knowledge of the first permanent English settlement in America by describing how geography influenced the decision to settle at Jamestown

Economics

- Demonstrate knowledge of government, geography and economics by
 - » describing the major products and industries of Virginia's five geographic regions
 - » explaining how advances in transportation, communications and technology have contributed to Virginia's prosperity and role in the global economy

History

- Demonstrate knowledge of the first permanent English settlement in America by
 - » explaining the reasons for English colonization
 - » describing the hardships faced by settlers at Jamestown and the changes
 - » describing interactions between the English settlers and the native peoples, including the contributions of Powhatan to the survival of the settlers

Civics

- Demonstrate knowledge of the first permanent English settlement in America by identifying the importance of the charters of the Virginia Company of London in establishing the Jamestown settlement