

SOLs BY GRADE

Third Grade

History

3.6 The student will interpret geographic information from maps, tables, graphs, and charts.

3.7 The student will explain how producers use natural resources (water, soil, wood, and coal), human resources (people at work), and capital resources (machines, tools, and buildings) to produce goods and services for consumers.

3.8 The student will recognize the concepts of specialization (being an expert in one job, product, or service) and interdependence (depending on others) in the production of goods and services...

English

3.6 The student will continue to read and demonstrate comprehension of nonfiction.

c) Ask and answer questions about what is read.

e) Organize information and events logically.

f) Summarize major points found in nonfiction materials.

3.7 The student will demonstrate comprehension of information from a variety of print resources.

a) Use dictionary, glossary, thesaurus, encyclopedia, and other reference books, including online reference materials.

b) Use available technology.

3.10 The student will write stories, letters, simple explanations, and short reports across all content areas.

a) Use a variety of planning strategies.

b) Organize information according to the type of writing.

d) Revise writing for specific vocabulary and information.

e) Use available technology.

3.11 The student will edit writing for correct grammar, capitalization, punctuation, and spelling.

a) Use complete and varied sentences.

h) Use correct spelling for high-frequency sight words, including irregular plurals.

Science

3.8 The student will investigate and understand basic patterns and cycles occurring in nature. Key concepts include

a) patterns of natural events (day and night, seasonal changes, phases of the moon, and tides); and

b) animal and plant life cycles.

- 3.10 The student will investigate and understand that natural events and human influences can affect the survival of species. Key concepts include
- a) the interdependency of plants and animals;
 - b) the effects of human activity on the quality of air, water, and habitat;
 - c) the effects of fire, flood, disease, and erosion on organisms; and
 - d) conservation and resource renewal.
- 3.11 The student will investigate and understand different sources of energy. Key concepts include
- a) the sun's ability to produce light and heat energy;
 - b) sources of energy (sunlight, water, wind);
 - e) fossil fuels (coal, oil, natural gas) and wood;

Math

- 3.21 The student, given grid paper, will
- a) collect and organize data on a given topic of his/her choice, using observations, measurements, surveys, or experiments;
 - b) construct a line plot, a picture graph, or a bar graph to represent the results. Each graph will include an appropriate title and key.
- 3.22 The student will read and interpret data represented in line plots, bar graphs, and picture graphs and write a sentence analyzing the data.

Fourth Grade

History

- VS.1 The student will develop skills for historical and geographical analysis including the ability to
- i) analyze and interpret maps to explain relationships among landforms, water features, climatic characteristics, and historical events.
- VS.2 The student will demonstrate knowledge of the geography and early inhabitants of Virginia by
- a) locating Virginia and its bordering states on maps of the United States;
 - b) locating and describing Virginia's Coastal Plain (Tidewater), Piedmont, Blue Ridge Mountains, Valley and Ridge, and Appalachian Plateau;
- VS.9 The student will demonstrate knowledge of twentieth century Virginia by
- a) describing the economic and social transition from a rural, agricultural society to a more urban, industrialized society, including the reasons people came to Virginia from other states and countries;
- VS.10 The student will demonstrate knowledge of government, geography, and economics by
- b) describing the major products and industries of Virginia's five geographic regions;

English

- 4.5 The student will read and demonstrate comprehension of nonfiction.
- e) draw conclusions, using information from texts.

- f) summarize content of selection, identifying important ideas and providing details for each important idea.
 - i) identify new information gained from reading.
- 4.6 The student will demonstrate comprehension of information resources to research a topic.
- a) Construct questions about a topic.
 - b) Collect information, using the resources of the media center, including online, print, and media resources.
- 4.8 The student will edit writing for correct grammar, capitalization, spelling, punctuation, and sentence structure.
- h) Use correct spelling for frequently used words, including common homophones.

Science

- 4.8 The student will investigate and understand important Virginia natural resources. Key concepts include
- a) watershed and water resources;
 - b) animals and plants;
 - c) minerals, rocks, ores, and energy sources; and forests, soil, and land.

Math

- 4.20 The student will collect, organize, and display data in line and bar graphs with scale increments of one or greater than one and use the display to interpret the results, draw conclusions, and make predictions.

Fifth Grade

History

- USI.1 The student will develop skills for historical and geographical analysis, including the ability to
- c) make connections between the past and the present;
 - f) analyze and interpret maps to explain relationships among landforms, water features, climatic characteristics, and historical events;
- USI.2 The student will use maps, globes, photographs, pictures, and tables to
- b) locate and describe the location of the geographic regions of North America: Coastal Plain, Appalachian Mountains, Canadian Shield, Interior Lowlands, Great Plains, Rocky Mountains, Basin and Range, and Coastal Range
- USI.8 The student will demonstrate knowledge of westward expansion and reform in America from 1801 to 1861 by
- d) describing the impact of inventions, including the cotton gin, the reaper, the steamboat, and the steam locomotive, on life in America

English

- 5.6 The student will read and demonstrate comprehension of nonfiction.
- g) Identify new information gained from reading.

5.7 The student will demonstrate comprehension of information from a variety of print resources.

- a) Develop notes that include important concepts, summaries, and identification of information sources.
- b) Organize information on charts, maps, and graphs.

5.8 The student will write for a variety of purposes: to describe, to inform, to entertain, and to explain.

- a) Choose planning strategies for various writing purposes.
- b) Organize information.
- g) Use available technology to access information.

5.9 The student will edit writing for correct grammar, capitalization, spelling, punctuation, and sentence structure.

- h) Edit for clausal fragments, run-on sentences, and excessive coordination.

Math

5.18 The student will, given a problem situation, collect, organize, and display a set of numerical data in a variety of forms, using bar graphs, stem-and-leaf plots, and line graphs, to draw conclusions and make predictions.