

## Science

### ***The Practice of Science***

- Define a problem, use appropriate reference materials to support scientific understanding, plan and carry out scientific investigations (systematic observations, experiment requiring the identification of variables, collecting and organizing data, interpreting data in charts, tables and graphics), analyze information, make predictions, and defend conclusions
- Explain the difference between an experiment and other types of scientific investigation
- Recognize and explain the need for repeated experimental trials
- Identify a control group and explain its importance in an experiment.
- Recognize and explain that authentic scientific investigation frequently does not parallel the steps of “the scientific method”
- Recognize and explain the difference between personal opinion/interpretation and verified observation

### ***The Characteristics of Scientific Knowledge***

- Recognize and explain that science is grounded in empirical observations that are testable; explanation must always be linked with evidence
- Recognize and explain that when scientific investigations are carried out, the evidence produced should be replicable by others

### ***Earth in Space and Time***

- Recognize that a galaxy consists of gas, dust and many stars (including any objects orbiting the stars) and identify our home galaxy as the Milky Way
- Recognize the major common characteristics of all planets and compare/contrast the properties of inner and outer planets
- Distinguish among the following objects of the Solar System (Sun, planets, moons, asteroids, comets) and identify Earth’s position in it

### ***Earth Systems and Patterns***

- Create a model to explain the parts of the water cycle and knows that water can be a gas, a liquid or a solid and can go back and forth from one state to another
- Recognize that the ocean is an integral part of the water cycle and is connected to all of Earth’s water reservoirs via evaporation and precipitation processes
- Recognize how air temperature, barometric pressure, humidity, wind speed and direction, and precipitation determine the weather in a particular place and time
- Distinguish among the various forms of precipitation, making connections to the weather in a particular place and time
- Recognize that some of the weather-related differences, such as temperature and humidity, are found among different environments, such as swamps, deserts, and mountains
- Describe characteristics (temperature and precipitation) of different climate zones as they relate to latitude, elevation, and proximity to bodies of water
- Design a family preparedness plan for natural disasters and identifies the reasons for having such a plan

### ***Properties of Matter***

- Compare and contrast the basic properties of solids, liquids, and gases (mass, volume, color, texture and temperature)
- Investigate and identify materials that will dissolve in water and those that will not and identifies the conditions that will speed up or slow down the dissolving process
- Demonstrate and explain that mixtures of solids can be separated based on observable properties of their parts (particle size, shape, color, and magnetic attraction)
- Explore the scientific theory of atoms (also called atomic theory) by recognizing that all matter is composed of parts that are too small to be seen without magnification

### ***Changes in Matter***

- Investigate and describe that many physical and chemical changes are affected by temperature

### ***Forms of Energy***

- Investigate and describe some basic forms of energy (light, heat, sound, electrical, chemical, and mechanical)
- Investigate and explain that energy has the ability to cause motion or create change
- Investigate and explain that an electrically-charged object can attract an uncharged object and can either attract or repel another charged object without any contact between the objects
- Investigate and explain that electrical energy can be transformed into heat, light, and sound energy as well as the energy of motion

### ***Energy Transfer and Transformations***

- Investigate and illustrate the fact that the flow of electricity requires a closed circuit (a complete loop)
- Identify and classify materials that conduct electricity and materials that do not

### ***Forces and Changes in Motion***

- Identify familiar forces that cause objects to move, such as pushes or pulls, including gravity acting on falling objects
- Investigate and describe that the greater the force applied to it, the greater the change in motion of an object
- Investigate and explain that the more mass an object has, the less effect a force will have on the object’s motion
- Investigate and explain that when a force is applied to an object but it does not move, it is because another opposing force is being applied by something in the environment so that the forces are balanced

### ***Organization and Development of Living Organisms***

- Identify the organs in the human body and describes their functions (the skin, brain, heart, lungs, stomach, liver, intestines, pancreas, muscles and skeleton, reproductive organs, kidneys, bladder, and sensory organs)
- Compare and contrast the functions of organs and other physical structures of plants and animals, including humans, for example: some animals have skeletons for support-some with internal skeletons and others with exo-skeletons-while some plants have stems for support

### ***Diversity and Evolution of Living Organisms***

- Describe how, when the environment changes, differences between individuals allow some plants and animals to survive and reproduce while others die or move to new locations

### ***Interdependence***

- Compare and contrast adaptations displayed by animals and plants that enable them to survive in different environments (life cycles variations, animal behaviors and physical characteristics)

## Social Studies

### ***American History***

- Use primary and secondary sources to understand history
- Utilize timelines to identify and discuss American History time periods
- Compare cultural aspects of ancient American civilizations
- Identify Native Americans tribes from different geographic regions of North America
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- Describe technological developments that shaped European exploration
- Investigate the European exploration
- Investigate the European explorers
- Describe interactions among Native Americans, Africans, English, French, Dutch, and Spanish for control of North America
- Identify the economic, political and socio-cultural motivation for colonial settlement
- Compare characteristics of New England, Middle, and Southern colonies
- Identify significant individuals responsible for the development of the New England, Middle, and Southern colonies
- Demonstrate an understanding of political, economic, and social aspects of daily colonial life in the thirteen colonies
- Explain the importance of Triangular Trade linking Africa, the West Indies, the British Colonies, and Europe
- Describe the introduction, impact, and role of slavery in the colonies
- Identify and explain significant events leading up to the American Revolution
- Identify significant individuals and groups who played a role in the American Revolution
- Explain the significance of historical documents including key political concepts, origins of these concepts, and their role in American Independence
- Examine and compare major battles and military campaigns of the American Revolution
- Identify the contributions of foreign alliances and individuals to the outcome of the Revolution
- Explain economic, military, and political factors which led to the end of the Revolutionary War
- Evaluate the personal and political hardships resulting from the American Revolution
- Discuss the impact and significance of land policies developed under the Confederation Congress
- Examine the significance of the Constitution including its key political concepts, origins of those concepts, and their role in American democracy
- Describe the causes and effects of the Louisiana Purchase
- Identify roles and contributions of significant people during the period of westward expansion
- Examine 19th century advancements in transportation and communication
- Explain the importance of the explorations west of the Mississippi River
- Identify the causes and effects of the War of 1812
- Explain how westward expansion affected Native Americans
- Discuss the concept of Manifest Destiny
- Describe the causes and effects of the Missouri Compromise
- Describe the hardships of settlers along the overland trails to the west

### ***Geography***

- Interpret current and historical information using a variety of geographic tools
- Use latitude and longitude to locate places
- Identify major United States physical features on a map of North America
- Construct maps, charts, and graphs to display geographic information
- Identify and locate the original thirteen colonies on a map of North America
- Locate and identify states, capitals, and United States Territories on a map
- Describe the push-pull factors that influenced boundary changes within the United States
- Describe the impact that past natural events have had on human and physical environments in the United States through 1850
- Use geographic knowledge and skills when discussing current events
- Use geography concepts and skills such as recognizing patterns, mapping, graphing to find solutions for local, state, or national problems

### ***Economics***

- Identify how trade promoted economic growth in North America from pre-Columbian times to 1850
- Describe a market economy, and give examples of how the colonial and early American economy exhibited these characteristics
- Trace the development of technology and the impact of major inventions on business productivity during the early development of the United States
- Recognize the positive and negative effects of voluntary trade among Native Americans, European explorers, and colonists

### ***Civics and Government***

- Explain how and why the United States government was created
- Define a constitution, and discuss its purposes
- Explain the definition and origin of rights
- Identify the Declaration of Independence’s grievances and Articles of Confederation’s weaknesses
- Describe how concerns about individual rights led to the inclusion of the Bill of Rights in the U.S. Constitution
- Compare Federalist and Anti-Federalist views of government
- Differentiate political ideas of Patriots, Loyalists, and “undecideds” during the American Revolution
- Compare forms of political participation in the colonial period to today
- Analyze how the Constitution has expanded voting rights from our nation’s early history to today
- Evaluate the importance of civic responsibilities in American democracy
- Identify ways good citizens go beyond basic civic and political responsibilities to improve government
- Describe the organizational structure and powers of the federal government as defined in the U.S. Constitution
- Explain how popular sovereignty, rule of law, separation of powers, checks and balances, federalism, and individual rights limit the powers of the federal government as expressed in the Constitution and Bill of Rights
- Give examples of powers granted to the federal government and those reserved for the states
- Describe the amendment process as defined in Article V of the Constitution and give examples
- Identify the fundamental rights of all citizens as enumerated in the Bill of Rights
- Examine the foundations of the United States legal system by recognizing the role of the courts in interpreting law and settling conflicts

# Walton

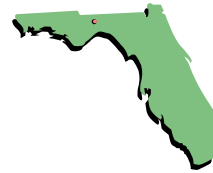
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## COUNTY SCHOOL DISTRICT

## ***A Parent’s Guide to Florida Standards for Grade***

# 5

Dear Parent or Guardian:



Walton County School District teachers have worked diligently to develop a comprehensive outline of what your child will learn at each grade level. These concepts, processes, and content are essential for students to know and be able to do as they complete each grade. The expectations have been compiled based on Florida Standards. Florida Standards are higher expectations that represent what Florida students are expected to know and be able to do.

We encourage you to be involved in your child's education. You can impact the academic success of your child by becoming familiar with the concepts and skills being taught at school and by learning how you can reinforce classroom activities at home.



#### HELPFUL HINTS FOR THIS BROCHURE:

1. Use this brochure as a guide throughout the school year. It will help you to help students achieve the Florida Standards.
2. The subject areas are listed at the top of each panel. **READING AND LANGUAGE ARTS, MATHEMATICS, SOCIAL STUDIES AND SCIENCE** are included in this brochure. Information about the other subject areas can be obtained at your child's school.
3. At the bottom of each panel is a description of activities that you can do with your child at home.
4. If you have specific questions regarding curriculum or school programs, please call your child's teacher or principal.

\* Only major skills are included in this brochure. Additional skills are listed at your child's school.

## Reading and Language Arts

### Reading Standards for Literature

- Quote accurately from a text when explaining what the text says and when drawing inferences
- Determine a theme of a story, drama, or poem from details in the text, including how characters in a story respond to challenges or how the speaker in a poem reflects upon a topic; summarize the text
- Compare and contrast two or more characters, settings, or events in a story or drama, drawing on specific details in the text
- Determine the meaning of words and phrases as they are used in the text, including figurative language
- Explain how a series of chapters, scenes, or stanzas fits together to provide the overall structure of a particular story, drama or poem
- Describe how a narrator's or speaker's point of view influences how events are described
- Analyze how visual and multimedia elements contribute to the meaning, tone, or beauty of a text
- Compare and contrast stories in the same genre on their approaches to similar themes and topics
- Read and comprehend literature of appropriate complexity for the high end of grades 4-5

### Reading Standards for Informational Text

- Quote accurately from a text when explaining what the text says and when drawing inferences
- Determine two or more main ideas of a text and explain how they are supported by key details; summarize the text
- Explain the relationships or interactions between two or more individuals, events, ideas, or concepts in a historical, scientific, or technical text based on specific information in the text
- Determine the meaning of general academic or domain-specific words and phrases
- Compare and contrast the overall structure of events, ideas, concepts, or information in two or more texts
- Analyze multiple accounts of the same event or topic, noting similarities and differences in the point of view they represent
- Draw on information from multiple print or digital sources, demonstrating the ability to locate an answer to a question quickly or to solve a problem efficiently
- Explain how an author uses reasons and evidence to support points in a text, identifying these reasons
- Integrate information from several texts on the same topic in order to write or speak about the subject
- Read and comprehend informational text of appropriate complexity for the high end of grades 4-5

### Foundational Skills

- Use combined knowledge of all letter-sound correspondences, syllabication patterns, and morphology to read unfamiliar words accurately
- Read on-level text with purpose and understanding
- Read on-level prose and poetry orally with accuracy, appropriate rate, and expression
- Use context to confirm or self-correct word recognition and understanding, rereading as necessary

### Writing Standards

- Write opinion pieces on topics or texts, supporting a point of view with reasons and information
- Write informative/explanatory texts to examine a topic and convey ideas and information clearly
- Write narratives to develop real or imagined experiences or events using effective technique, descriptive details, and clear event sequences
- Produce clear and coherent writing in which the development and organization are appropriate
- Develop and strengthen writing as needed by planning, revising, and editing
- Use technology, including the internet, to produce and publish writing as well as to interact and collaborate with others; demonstrate sufficient command of keyboarding skills to type a minimum of two pages in a single sitting
- Conduct short research projects that use several sources to build knowledge through investigation of different aspects of a topic
- Recall relevant information from experiences or gather relevant information from print and digital sources; summarize or paraphrase information in notes and finished work, and provide a list of sources
- Draw evidence from literary or informational texts to support analysis, reflection, and research
- Write routinely over extended time frames and shorter time frames for a range of tasks

### Speaking and Listening Standards

- Engage effectively in a range of collaborative discussions with diverse partners on grade 5 topics and texts, building on others' ideas and expressing their own clearly
- Summarize a written text read aloud or information presented in diverse media and formats, including visually, quantitatively, and orally
- Summarize the points a speaker makes and explain how each is supported by reasons and evidence
- Report on a topic or text or present an opinion, sequencing ideas logically and using appropriate facts and relevant, descriptive details to support main ideas or themes; speak clearly at an understandable pace
- Include multimedia components and visual displays in presentations when appropriate to enhance the development of main ideas or themes
- Adapt speech to a variety of contexts and tasks, using formal English when appropriate to task

### Language

- Demonstrate command of the conventions of standard English grammar and usage when writing or speaking
- Demonstrate command of the conventions of standard English capitalization, punctuation, and spelling when writing
- Use knowledge of language and its conventions when writing, speaking, reading, or listening
- Determine or clarify the meaning of unknown and multiple-meaning words and phrases
- Demonstrate understanding of figurative language, word relationships, and nuances in word meanings
- Acquire and use accurately grade-appropriate general academic and domain-specific words and phrases

## Mathematics

### Operations and Algebraic Thinking

- Write and interpret numerical expressions
- Analyze patterns and relationships

### Number and Operations in Base Ten

- Understand the place value system
- Perform operations with multi-digit whole numbers and with decimals to hundredths

### Number and Operations-Fractions

- Use equivalent fractions as a strategy to add and subtract fractions
- Apply and extend previous understandings of multiplication and division to multiply and divide fractions

### Measurement and Data

- Convert like measurement units within a given measurement system
- Represent and interpret data
- Geometric measurement: understand concepts of volume and relate volume to multiplication and to addition

### Geometry

- Graph points on the coordinate plane to solve real-world and mathematical problems
- Classify two-dimensional figures into categories based on their properties



#### \*\*\*\*\*Ideas for helping your child at home with Mathematics:

1. Plan a shopping trip to the grocery store. Have your child help you make a list of needed items, then estimate the cost of each item. Be sure to take the written estimates with you to the store. While you shop, have your child record the actual cost of each item. When you return home, he/she can figure out how close the estimate came to the actual cost.
2. While shopping, ask your child to help you figure the cost on items that are on sale. If the item has 20 percent off the original price, how much will it be? What if it has 30 percent off?
3. Buy your child a calculator.

