

SCIENCE

The Nature of Science

- attempts reasonable answers to scientific questions and cite evidence in support
- compares the methods and results of investigations done by other classmates
- keeps records that describe observations made, carefully distinguishing actual observations from ideas and inferences about the observations
- recognizes that science involves creativity in designing experiments
- explains that models can be three dimensional, two dimensional, an explanation in your mind, or a computer model

Earth and Space Science

- describes the changes in the observable shape of the moon over the course of about a month
- recognizes that Earth revolves around the Sun in a year and rotates on its axis in a 24-hour day
- investigates and reports the effects of space research and exploration on the economy and culture of Florida
- describes the basic differences between physical weathering (breaking down of rock by wind, water, ice, temperature change, and plants) and erosion (movement of rock by gravity, wind, water, and ice)
- identifies resources available in Florida (water, phosphate, oil, limestone, silicon, wind, and solar energy)

Physical Science

- measures and compares objects and materials based on their physical properties including mass, shape, volume, color, hardness, texture, odor, taste, attraction to magnets
- explores the Law of Conservation of Mass by demonstrating that the mass of a whole object is always the same as the sum of the masses of its parts
- investigates and describes that energy can cause motion or create change
- investigates and explains that sound is produced by vibrating objects and that pitch depends on how fast or slow the object vibrates

Life Science

- recognizes that animal behaviors may be shaped by heredity and learning
- compares the seasonal changes in Florida plants and animals to those in other regions of the country
- traces the flow of energy from the Sun as it is transferred along the food chain through the producers to the consumers
- recognizes ways plants and animals, including humans, can impact the environment



Ideas for Helping Your Child at Home

- ☺ Use the newspaper to help your child observe temperature and humidity changes. Make a graph to plot these changes over time
- ☺ During hurricane season, plot coordinates of hurricanes on a tracking chart
- ☺ Help your child identify all the items in your home that use electricity and the electrical source for each. Discuss how various tasks could be performed without electric power.
- ☺ Read and discuss together news articles about NASA, launches, and human exploration of space
- ☺ Look for places in the yard that have been changed by wind and water. Compare these changes to weathering and erosion

What Your Child is Expected to Learn...



4th Grade

A Representative Sample of Expectations by Grade Level

For a complete list of the state adopted standards, please go to the keyword search tab at: <http://www.cpalms.org/Standards/FLStandardSearch.aspx>

Dear Parents,

The mission of Brevard Public Schools is "to serve every student with excellence as the standard." Our elementary schools work toward this goal each school day by ensuring that every child has exciting and meaningful learning experiences. We expect all of our students to learn and to demonstrate increasingly complex skills as they progress through the grades toward the goal of becoming responsible and productive adults. Toward this end, I am pleased to share with you a representative sample of the learning expectations for your child this year. These sample learning expectations are stated within the State Standards from the Florida Department of Education.

These standards provide focus and consistency for teachers and students and offer parents and community members a clear view of a school's expectations for student learning. The parent's role in supporting children's educational progress is increasingly important in our rapidly changing world. I urge you to review these expectations and to take advantage of opportunities to provide rewarding learning experiences for your child each day.

I wish your child a successful school year!

Sincerely,

Tara Harris

Tara Harris, Director
Elementary Leading and Learning

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What Your Child is Expected to Learn in Fourth Grade 2021-22

For a complete list of standards, go to the subject area links at:

<https://www.brevardschools.org/Page/14057>

ENGLISH LANGUAGE ARTS

Reading

- reads grade-level text fluently and accurately
- explains how setting, events, conflict, and character development contribute to the plot
- explains a stated or implied theme and how it develops
- identifies the narrator's point of view and explains the difference between a narrator's point of view and character perspective
- explains how rhyme and structure contribute to the meaning in a poem
- explains how text features contribute to the meaning
- identify the text structures of problem/solution, sequence, and description
- explains how the details support the implied or explicit central idea.
- explains an author's perspective toward a topic
- explains an author's claim and the reasons and evidence used to support the claim
- identifies and explains metaphors, personification, and hyperbole in texts
- makes inferences to support comprehension
- summarizes a text to enhance comprehension
- compares and contrasts accounts of the same event using primary and/or secondary sources

Communication

- demonstrates legible cursive
- engages in collaborative discussions
- uses appropriate voice and tone when speaking and writing
- cites evidence to explain and justify reasoning
- presents information orally in a logical sequence with nonverbal cues (ex. posture, tone, expression), appropriate volume, and clear pronunciation
- writes detailed narratives, opinions, and expository products
- improves writing by planning, revising, and editing
- follows the rules of standard English grammar, punctuation, capitalization, and spelling appropriate to the grade level (other conventions will be introduced):
 - *uses subject-verb agreement with intervening clauses and phrases*
 - *produces complete sentences, recognizing and correcting inappropriate fragments and run-ons*
 - *uses conjunctions*
- conducts research to answer a question, organizing information about the topic, using multiple valid sources

Vocabulary

- applies knowledge of common Greek and Latin roots, base words, and affixes to determine the meanings of unfamiliar words in grade-level content
- uses context clues, figurative language, word relationships, reference materials, and/or background knowledge to determine the meaning of multiple-meaning and unknown words and phrases, appropriate to 4th grade
- uses grade-level academic vocabulary appropriately in speaking and writing



Ideas for Helping Your Child at Home

- ☺ Read to and with your child using a variety of texts
- ☺ Encourage discussions at mealtimes, in the car, etc.
- ☺ Involve your child in family chores
- ☺ Encourage your child to respond to text through writing and drawing to show understanding
- ☺ Take your child to the library

☺ Make text available to your child at home

MATHEMATICS

Operations and Algebraic Thinking

- interprets a multiplication equation as a comparison
- solves multistep word problems posed with whole numbers and having whole-number answers using the four operations, including problems in which remainders must be interpreted
- determines whether an equation is true or false by using comparative relational thinking. (e. g, without adding 60 and 24, determine whether the equation $60 + 24 = 57 + 27$ is true or false)
- lists factors and multiples of numbers
- determines if a number is prime or composite
- generates a number or shape pattern that follows a given rule

Number and Operations

- generalizes place value understanding for multi-digit numbers
- reads and writes multi-digit whole numbers using base-ten numerals, number names, and expanded form
- compares two multi-digit numbers based on meanings of the digits in each place, using $>$, $=$, and $<$ symbols
- uses place value understanding to round multi-digit whole numbers to any place
- adds and subtracts multi-digit whole numbers fluently using the standard algorithm
- multiplies a whole number of up to four digits by a one-digit whole number, and multiply two two-digit numbers, using strategies based on place value and the properties of operations
- finds whole-number quotients and remainders with up to four-digit dividends and one-digit divisors, using strategies based on place value, the properties of operations, and/or the relationship between multiplication and division

Number and Operations – Fractions

- compares two fractions with different numerators and different denominators, (e.g., by comparing to a benchmark fraction such as one-half)
- decomposes a fraction into a sum of fractions with the same denominator in more than one way, recording each decomposition by an equation
- adds and subtracts mixed numbers with like denominators, e.g., by replacing each mixed number with an equivalent fraction and/or by using properties of operations and the relationship between addition and subtraction
- expresses a fraction with denominator 10 as an equivalent fraction with denominator 100, and uses this technique to add two fractions with respective denominators 10 and 100
- uses decimal notation for fractions with denominators 10 or 100
- compares two decimals to hundredths by reasoning about their size

Measurement and Data

- knows relative sizes of measurement units within one system of units including km, m, cm; kg, g; lb, oz.; l, ml; hr, min, sec.
- uses the four operations to solve word problems involving distances, intervals of time, and money, including problems involving simple fractions or decimals
- applies the area and perimeter formulas for rectangles in problems
- makes a line plot to display a data set of measurements in fractions of a unit
- solves problems involving addition and subtraction of fractions using information presented in line plots
- recognizes angles as geometric shapes that are formed wherever two rays share a common endpoint
- measures angles in whole-number degrees using a protractor

Geometry

- draws points, lines, line segments, rays, angles (right, acute, obtuse), and perpendicular and parallel lines.
- classifies two-dimensional figures based on the presence or absence of parallel lines, perpendicular lines, and angles of a specified size
- identify line-symmetric figures and draw lines of symmetry



Ideas for Helping Your Child at Home

- ☺ Engage your child in situations that require thinking and problem-solving
- ☺ Ask your child to share the strategies s/he used when solving problems
- ☺ Play games with your child that require using critical thinking skills such as card games, checkers, Connect Four, and so o.
- ☺ Involve your child in real-life problem situations that require the use of fractions and decimals
- ☺ Build various three-dimensional objects using blocks and discuss what these shapes look like from various positions such as the top, bottom, or side
- ☺ Provide opportunities for your child to measure using both the customary and metric systems
- ☺ Ask your child to do some of the hands-on activities s/he is doing in class with you

SOCIAL STUDIES

American History

- analyzes primary and secondary resources to identify significant events or people throughout Florida History
- compares Native American tribes in pre-Columbian Florida
- knows key events of the exploration and settlement of Florida
- explains the growth of Florida throughout history
- understands how events of American History affected Florida (Civil War, Industrialization)

Geography

- identifies physical features of Florida
- locates and labels cultural features on a Florida map
- explains how weather impacts Florida

Economics

- identifies entrepreneurs who have influenced Florida and local economies
- explains Florida's role in the national and international economy and conditions that attract businesses to the state

Civics and Government

- recognizes the foundations of Florida government, law, and the American political system
- discusses public issues in Florida that impact the daily lives of its citizens
- identifies the structure and functions of state and local government



Ideas for Helping Your Child at Home

- ☺ Explore Florida together
- ☺ Talk and discuss how the Florida government is organized.
- ☺ Read informational text with your child
- ☺ Discuss current events with your child