

## 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 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 B.E.S.T ELA/Math state standards from the Florida Department of Education.

These benchmarks and 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,

*Dr. Wendy Smith*

Dr. Wendy Smith, Director  
Elementary Programs

### School Board Members

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### Curriculum and Instruction

#### Assistant Superintendent

Mrs. Tara Harris

### Elementary Programs Director

Mrs. Wendy Smith

What Your Child is Expected to Learn in Fourth Grade 2023-2024

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 4<sup>th</sup> 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

## Number Sense and Operations

- expresses how the value of a digit in a multi-digit whole number changes if the digit moves one place to the left or right
- reads and writes multi-digit whole numbers from 0 to 1,000,000 using standard form, expanded form, and word form
- plots, orders, and compares multi-digit whole numbers from 0 to 1,000,000
- rounds whole numbers from 0 to 10,000 to the nearest 10, 100, or 1,000
- plots, orders, and compares decimals up to the hundredths
- recalls multiplication facts with factors up to 12 and related division facts with automaticity
- multiplies two whole numbers up to three digits by up to two digits with procedural reliability
- multiplies two whole numbers, each up to two digits, including using a standard algorithm with procedural fluency
- divides a whole number up to four digits by a one-digit whole number with procedural reliability; represents remainders as fractional parts of the divisor
- explores the multiplication and division of multi-digit whole numbers using estimation, rounding, and place value
- identifies the number that is one-tenth more, one-tenth less, one-hundredth more, and one-hundredth less than a given number
- explores the addition and subtraction of multi-digit numbers with decimals to the hundredths

## Fractions

- models and expresses a fraction, including mixed numbers and fractions greater than one, with the denominator 10 as an equivalent fraction with the denominator 100
- uses decimal notation to represent fractions with denominators of 10 or 100, including mixed numbers and fractions greater than 1, and uses fractional notation with denominators of 10 or 100 to represent decimals
- identifies and generates equivalent fractions, including fractions greater than one; describes how the numerator and denominator are affected when the equivalent fraction is created
- plots, orders, and compares fractions, including mixed numbers and fractions greater than one, with different numerators and denominators
- decomposes fractions, including mixed numbers and fractions greater than one, into a sum of fractions with the same denominator in multiple ways
- adds and subtracts fractions with like denominators, including mixed numbers and fractions greater than one, with procedural reliability
- explores the addition of a fraction with a denominator of 10 to a fraction with a denominator of 100 using equivalent fractions
- extends previous understanding of multiplication to explore the multiplication of a fraction by a whole number or a whole number by a fraction
- solves real-world problems involving multiplication and division of whole numbers, including problems in which remainders must be interpreted within the context
- solves real-world problems involving addition and subtraction of fractions with like denominators, including mixed numbers and fractions greater than one
- solves real-world problems involving multiplication of a fraction by a whole number or a whole number by a fraction
- determines and explains whether an equation involving any of the four operations of whole numbers is true or false
- given a mathematical or real-world context, writes and solves an equation involving multiplication or division to determine the unknown whole number with the unknown in any position
- determines factor pairs for a whole number from 0 to 144; determines whether a whole number from 0 to 144 is prime, composite, or neither
- generates, describes, and extends a numerical pattern that follows a given rule

## Measurements

- selects and uses appropriate tools to measure attributes of objects
- converts within a single system of measurement using the units yards, feet, inches; kilometers, meters, centimeters, millimeters; pounds, ounces; kilograms, grams; gallons, quarts, pints, cups; liters, milliliters; and hours, minutes, seconds

- solves two-step real-world problems involving distances and intervals of time using any combination of the four operations
- solves one- and two-step addition and subtraction real-world problems involving money using decimal notation

## Geometric Reasoning

- informally explores angles as an attribute of two-dimensional figures; identifies and classifies angles as acute, right, obtuse, straight, or reflex
- estimates angle measures: using a protractor, measures angles in wholenumber degrees and draws angles of specified measure in whole-number degrees; demonstrates that angle measure is additive
- solves real-world or mathematical problems involving unknown wholenumber angle measures and writes an equation to represent the unknown
- solves perimeter and area mathematical and real-world problems, including problems with unknown sides, for rectangles with whole number side lengths
- solves problems involving rectangles with the same perimeter and different areas or with the same area and different perimeters

## Data Analysis and Probability

- collects and represents numerical data, including fractional values, using tables, stem-and-leaf plots, or line plots
- determines the mode, median, or range to interpret numerical data, including fractional values, represented with tables, stem-and-leaf plots, or line plots
- solves real-world problems involving numerical data

### \*\*\* 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
- ☺ Involve your child in real-life problem situations that require the use of fractions and decimals
- ☺ Provide opportunities for your child to measure using both the customary and metric systems

# 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
- ☺ Read informational text with your child
- ☺ Discuss current events with your child