

## LEARNING IN GRADE 4

### ENGLISH LANGUAGE ARTS

The English Language Arts consist of four important communication processes: reading, writing, speaking, and listening. Below is a list of skills that Fourth Graders develop throughout the year:

#### READING | Literature and Informational Texts

- Analyze text structures to have a deeper understanding of what is being said by understanding how it is being said.
- Learn how to make inferences in texts to determine what the author is trying to say, without directly stating it.
- Determine central ideas or themes of a text and analyze their development; summarize the key supporting details and ideas.

#### READING | Foundational Skills

- Study letter-sound correspondence, spelling patterns of types of syllables, and Greek and Latin roots to deepen spelling and reading skills.
- Increase reading fluency and accuracy to gain better comprehension of various texts.

#### WRITING

- Opinion writing that includes an opinion and the reason for the opinion.
- Informational writing that names a topic, supplies facts from research, and provides closure.
- Narrative writing that incorporates story elements, including using dialogue, sensory details, and transition words.

#### LANGUAGE | Foundational Skills

- Use correct capitalization, punctuation, and spelling
- Determine meaning of unknown words by looking at parts of the word and other words in the sentence
- Sort words into categories and define words by key attributes

#### SPEAKING AND LISTENING

- Follow rules for discussions by building on what others are saying and by asking questions
- Follow simple two-step directions
- Speak in complete sentences
- Use correct grammar

### MATHEMATICS

Math consists of five important mathematical themes: Operations & Algebraic Thinking, Number & Operations in Base Ten, Number & Operations with Fractions, Measurement & Data, and Geometry. Also, there are Math Practice standards that we apply within all themes. Below is a list of skills that fourth graders develop throughout the year:

#### OPERATIONS & ALGEBRAIC THINKING

- Represent and solve problems involving multiplication and division.
- Use the subtraction, addition, multiplication, and division with whole numbers to solve problems.
- Become familiar with factors and multiples within 100 and be able to recognize factors when given a number
- Identify prime and composite numbers.
- Generate number and shape patterns using stated and non-explicit rules.



## NUMBER & OPERATIONS IN BASE TEN

- Compare and round base-ten whole numbers up to 1 million.
- Use place value understanding and properties of operations to perform multi-digit arithmetic.

## NUMBER & OPERATIONS/FRACTIONS

- Find quotients of whole numbers with up to four-digit dividends and two-digit divisors
- Illustrate and explain the calculation using equations, arrays, and/or area models

## FRACTION OPERATIONS

- Expand knowledge of fractions.
- Understand equivalent fractions that are found by multiplying. (ie.  $1/2 \times 2/2 = 2/4$  )
- Compare fractions with unlike denominators.
- Add and subtract fractions.
- Multiply fractions by whole numbers.
- Understand decimal notation for fractions, and compare decimal fractions. (ie.  $1/10 = 0.1$ )

## MEASUREMENT & DATA

- Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit. (ie. converting cm to m)
- Represent and interpret data.
- Geometric measurement: understand concepts of area and relate area to multiplication and to addition.
- Geometric measurement: recognize perimeter.

## GEOMETRY

- Reason with shapes and their attributes.

## MATH PRACTICE STANDARDS

1. Make sense of problems & persevere in solving them
2. Reason abstractly & quantitatively
3. Construct viable arguments & critique the reasoning of others
4. Model with mathematics
5. Use appropriate tools strategically
6. Attend to precision
7. Look for and make use of structure
8. Look for and express regularity in repeated reasoning.

## UNITS OF INQUIRY

### CULTURE AND IDENTITY

#### Enduring understanding:

The way people express themselves is influenced by their own personal experiences, family and the culture they live in.

#### Essential Questions:

- What is culture?
- How does culture influence our lives?
- How does culture influence the way we express ourselves?
- What are some ways people express themselves?



## **GOVERNMENT AND CIVIL RIGHTS**

### **Enduring understanding:**

Humans seek equality and justice, reshaping and reforming governance and norms. This remodeling happens through peaceful and violent uprisings.

### **Essential Questions:**

- Why do people fight for equality and justice?
- What causes change in society?
- What are the effects of change in a society?

## **GEOGRAPHY AND GEOLOGY**

### **Enduring understanding:**

The world around us is constantly changing, altering the choices and future of its inhabitants.

### **Essential Questions:**

- How does the Earth change?
- What causes the Earth to change?
- What can humans do to minimize the impact of these changes?

## **ENERGY AND WAVES**

### **Enduring understanding:**

Energy takes different forms, can be stored, released and transferred in various ways.

### **Essential Questions:**

- What are waves?
- How is energy transferred in each of its various states?
- How is the movement of energy altered or harnessed?
- How do waves move objects?

## **LIFE SCIENCE**

### **Enduring understanding:**

Plants and animals have similar structures and processes which have allowed them to adapt to their ever changing environments.

### **Essential Questions:**

- What are the internal and external structures of plants and animals?
- How do animals' and plants' structures support their survival, growth, behavior, and reproduction?
- How do animals receive and process information?