

1st Grade Curriculum

2005-2006



Paul Cuffee School
459 Promenade Street
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LANGUAGE ARTS

By the end of first grade, students will master concepts of print. They will read aloud first grade books fluently with deep comprehension. They will demonstrate phonetic knowledge when reading and writing. Students will use the writing process to produce pieces in a variety of genres. They will listen and respond appropriately to verbal and nonverbal language. They will organize their thoughts and explain them coherently. As a result students can:

Concepts of print

- Identify title, author, and illustrator of a reading selection (poem, book, short story)
- Know the difference between letters, words, and sentences
- Follow words in sentences as they are read left to right and top to bottom

Reading

- Read first grade books aloud fluently (smoothly with comprehension) in a variety of genres including non-fiction
- Know short and long vowel sounds (cap/cape, bit/bite)
- Identify sounds and blends in 1 and 2 syllable words
- Read consonant and vowel digraphs (sh/ch; ea/oa)
- Create groups of rhyming words by adding, deleting, or changing the beginning sounds (and, hand, sand, land)
- Read and spell first grade sight words (such as: when, said, here)
- Read compound words and contractions (raindrop, butterfly/won't you'll)
- Read s, ed, and ing at the end of words (looks, looked, looking)
- Answer who, what, where, when, why, and how questions about literature
- Identify the beginning, middle, and end of a story and recognize the main idea
- Make predictions about what will happen next when reading
- Relate personal life experiences to what is read (text-to-self connections)
- Continually discuss books read at home and school
- Read and follow two-step written instructions
- Choose a "just right book."
- Use reading and strategies to expand comprehension

Writing

- Print legibly and space letters, words, and sentences appropriately
- Spell three and four letter, short-vowel words correctly (flat, dog)
- Write in complete and understandable sentences
- Use sight words correctly in their writing
- Capitalize the first word of a sentence, names of people, and the pronoun "I"
- Use periods, question marks, or exclamation marks at the end of sentences
- Use the writing process (draft, revise, edit, publish) to polish pieces through the year
- Students are expected to write daily, respond to literature and use a variety of genres including: narrative writing (stories), functional writing (directions, recipes), and informational writing (reports).

Listening and Speaking

- Listen attentively
- Follow oral directions
- Retell stories and important events using simple sequencing
- Stay on topic when speaking
- Use descriptive words when speaking about people, places, things, and events
- Recite poems, rhymes, songs, stories
- Demonstrate the ability to understand and use emotional language such as: frustrated, shy, excited, angry, happy

MATHEMATICS

By the end of first grade, students will have developed a strong number sense. They will be able to perform computation of single digit numbers up to 20 as well as represent them accurately. Students will explain and represent their mathematical thinking in a variety of formats including pictures, equations, graphs, and words. They will also have an understanding of concepts such as shape, weight and measurement. As a result students can:

Number Sense

- Read, write, and sequence numbers to 100
- Understand and apply the concept of more, less, and equal amounts
- Know that addition means putting together, increasing
- Know that subtraction means taking away, comparing, or finding the difference
- Count by 2s, 5s, and 10s. Apply this strategy.
- Identify the name and value of coins

Algebra and Functions

- Find the total of two or more single digit numbers
- Automatically know combinations of 10 (6+4, 8+2, 7+3)
- Find combinations of numbers up to 20
- Understand the meaning of the symbols +, -, =
- Accurately write addition and subtraction equations ($4 + 3 = 7$, $7 - 4 = 3$)

Measurement and Geometry

- Use mathematical vocabulary to describe 2-D and 3-D shapes (rhombus, trapezoid, rectangular, prism, etc)
- Identify and compare triangles, rectangles, squares, and circles
- Group shapes according to common characteristics
- Construct 3-dimensional shapes from 2-dimensional shapes
- Understand and apply the concept of *heavy* and *light* (weight)
- Measure and compare lengths using nonstandard units (paper clips, crayons, etc)

Statistics, Data Analysis, and Probability

- Describe, sort, and label objects
- Organize, represent, and compare data (information) on simple graphs
- Recognize patterns in number relationships (2, 4, 6, etc.)
- Recognize patterns in the world (flowers, music, snowflakes)
- Create and continue patterns using a variety of formats (abab, abcabc, abbcabbc)

Mathematical Reasoning

- Record solutions to story problems with pictures, numbers, words, and equations
- Find more than one solution to a problem when possible
- Create story problems
- Identify operation of story problems

SCIENCE

By the end of first grade, students are familiar with and can implement scientific processes. They will demonstrate awareness of the balance and movement of objects. Students will recognize the features of plants and animals and their need for food, water, and light. They will begin to understand the complexities of ocean properties. As a result students can:

Investigation and Experimentation

- Create a hypothesis and test the hypothesis
- Record observations and data with pictures, numbers, and words
- Record observations on a bar graph

Physical Sciences

- Understand how objects balance
- Understand the principles of how objects move
- Understand buoyancy

Life Sciences

- Develop a respect for all living organisms
- Identify several animals and their habitat and life cycle
- Match plants and animals to the environment for which they are designed
- Identify water as a need for plants and animals
- Recognize food as a need for animals
- Explain the relationships of animals and plants, related to food and shelter

Earth Sciences

- Recognize elements of the ocean including water, sand, rocks, and animals.
- Identify difference between salt and fresh water

SOCIAL STUDIES

By the end of first grade, students will have developed a strong sense of how a community works. They will have internalized many social skills which will help them become responsible citizens. They will have a deeper understanding of Paul Cuffee's community and other communities around the world. Students will learn how to make and use maps. They will also learn about how important diversity is in a community. As a result students can:

Diversity/Cultures/Anthropology

- Embrace and appreciate diversity

Civics/Citizenship and Life Skills

- Cooperate with peers and adults
- Understand their potential for making contributions to the neighborhood and community
- Resolve conflicts responsibly
- Develop a sense of pride in who they are and what they are capable of accomplishing

Geography

- Develop map-reading skills
- Create community models and maps
- Begin to build an understanding of the relationship between the real world and maps

Psychology and Sociology

- Explore their place in a larger environment
- Discover the benefits of being sensitive to the concerns of their neighbors and community

Economics and History

- Understand more about Paul Cuffee by focusing on how his community functioned and thrived
- Explore the way communities grow and change over time and the reasons for those changes
- Know about some of our culture's complex historical events
- Examine multiple perspectives within communities

Global Connections

- Begin to understand the similarities and differences among communities around the world
- Make connections between communities around the world and their community