

Science Course Purpose

Your child will engage in scientific inquiry using scientific literacy. Students will apply a range of thinking processes, such as recalling facts, applying knowledge, analyzing, evaluating and creating.

Grade Level Expectations

PROPERTIES OF MATTER

Students will be able to investigate, discover and describe the fact that solids tend to maintain their own shapes, while liquids tend to assume the shapes of their containers, and gases fill their containers.

STRUCTURE AND FUNCTION

Students in second grade will learn that plants change their forms as part of their life cycle. They will be able to describe the life cycles of flowering plants as they grow from seeds, proceed through maturation and produce new seeds and they will explore and describe the effects of light and water on seed germination and plant growth.

THE CHANGING EARTH

Students will experiment with different soils and discover that they can be described by their color, texture and capacity to retain water. They will also learn that soils support the growth of many kinds of plants, including those in our food supply.

SCIENCE AND TECHNOLOGY IN SOCIETY

The big idea in this unit is that human beings, like all other living things, have special nutritional needs for survival. Students in grade two will be asked to identify sources of common foods and classify them in their basic food group. They will also be asked to describe how people in different cultures use different food sources to meet their nutritional needs.

Social Studies Course Purpose

Your child will discuss information from history and social studies to enhance their understanding of our nation and our world using literacy, inquiry and research skills to analyze, evaluate and present history and social studies information.

Grade Level Expectation

CONTENT KNOWLEDGE

In second grade your child will be able to: explain history-related holidays; develop an understanding of the need for rules and laws through Responsive Classroom; analyze when an individual's rights in school must be limited to ensure safety; compare resources that are made, learned, built or grown; identify different cultural/ethnic groups within one's community.

HISTORY AND SOCIAL STUDIES LITERACY

Second grade students will be able to: assess information from print materials with assistance; write one-to-two sentence descriptions of historical scenes; participate in classroom discussions; create relevant social studies materials such as maps, charts or displays (identifies locations using map symbols, give and follow directions using N, S, E, W, identify land/water formations on a map/globe, scale, keys/legends).

HISTORICAL APPLICATION

Students will be able to explain why there are different sides/points of view of one event. They will be able to predict and analyze how another person might feel in a specific situation.

Unified Arts Course Purpose

Music and Visual Arts

Your child will gain an understanding and appreciation of the arts, as well as the ability to participate in creating and performing the arts, as they are essential attributes of an educated person. Your child will understand and use the materials, techniques, forms, language, notation, literature/ repertoire, and diverse cultural and historical contexts of each art form.

Physical Education

Your child will take responsibility for protecting his/her own health. Students will learn about nutrition and physical activity, and apply this knowledge by making healthy choices for themselves. Each child will have opportunities to:

- demonstrate mature motor patterns in simple combinations
- demonstrate control in traveling activities, weight bearing, and balancing on a variety of body parts
- exhibit a physically active life-style and healthy level of fitness
- demonstrate the skills and knowledge necessary to participate in a variety of physical activities;
- make decisions to establish and maintain a healthy lifestyle to promote individual wellness throughout his or her entire life;
- recognize and understand the different effects of physical activity on one's mind and body; and
- develop interpersonal skills and exhibit positive character traits during physical activity.

Grade Two

Curriculum



East Windsor Public Schools

Mission:

Broad Brook Elementary School's mission is to offer our entire community of learners a varied and challenging curriculum, in a safe and nurturing environment that is conducive to teaching and learning. The school community is committed to developing respectful behaviors, personal responsibility and productive citizenship.

Student Profile:

Second graders are curious and love to ask questions. Their strategic thinking is beginning to improve to help solve problems at school and at home. They enjoy physical activity but usually in a structured manner. They also are beginning to show that they have the capacity to understand others' actions and feelings.

Grade Two/Course Purposes and Expectations

Language Arts Course Purpose

Your child will engage in the workshop instructional model to read, think, analyze, question and converse about books on a daily basis, so that every student will be highly skilled in reading, writing, listening, speaking, viewing and presenting across all content areas.

Grade Level Expectations

WRITING

Students in second grade will be exposed to different types of genre writing including descriptive, narrative, expository, persuasive and poetry. They will write brief stories using an episodic structure to detail beginning, middle and end and will be asked to generate a piece of informational text.

Writing Process

Students will communicate with others by applying English Language Conventions through the writing process of *Plan, Draft, Revise, Edit, Publish, and Reflect*. Students will use word lists to correct their own spelling, think about who will read and react to their paper and make changes to their writing to make the meaning of their story more understandable.

READING

Phonemic Awareness

Students will understand that sounds of language, like rhyme and rhythm contribute to fluency.

Phonics

Students in second grade will be expected to be able to:

- Identify short and long vowel sounds.
- Identify and use r-controlled patterns.
- Apply knowledge of basic syllabication rules when reading.
- Decode multisyllabic words (compound/prefixes/suffixes).
- Read irregularly spelled words, such as ocean and angel.

Fluency

Students by the end of second grade should be able to read aloud while comprehending, unpracticed text with a fluency of 90+ to 100+ correct words per minute.

Vocabulary

Students will be able to reread and read on to determine unknown words. They will be able to identify unfamiliar words and know how to help themselves to discover the word or word meaning. They should also use content-specific vocabulary in speaking and writing.

Reading Comprehension

Students will learn and utilize before reading, during reading and after reading strategies to support thinking while reading. Examples include:

- Activating prior knowledge and establishing a purpose to get ready to read.
- Preview different parts of the text.
- Apply strategies of a strategic thinker: making connections, predicting, questioning, inferring and visualizing.

Reading Reflection/Behaviors

Students will choose a variety of “just right” genres to read, and/or listen to and explain their appeal, and be able to answer the question, “What did I learn today about myself as a reader?” They will be able to read independently for a variety of purposes and will respond to oral or written questions regarding story elements in fiction, or facts in an informational text. Students will also be able to identify rhythm, rhyme and alliteration.

Mathematics Course Purpose

Your second grade student will learn mathematical thinking to explain and use problem-solving strategies in the following math areas: algebraic reasoning; Patterns and Functions; Numerical and Proportional Reasoning; Geometry and Measurement; and Working with Data.

Grade Level Expectations

Algebraic Reasoning: Patterns and Functions

Students will be able to:

- Describe and extend patterns
- Represent real-life situations using number sentences.

Number and Proportional Reasoning

- Compare and round numbers to the nearest ten
- Represent 3-digit numbers with place value models and pictures and write numbers in expanded and regrouped forms.
- Locate, label, and order 2-and 3-digit numbers using place value models, pictures, and number lines.
- Understand place value concepts through the hundreds.
- Maintain fluency of addition facts to 18.
- Acquire fluency facts of subtraction to 18.
- Use a variety of strategies for adding and subtracting two-digit numbers.
- Learn the relationship between repeated addition and multiplication.
- Explore the connection between multiplication

and division using models and pictures of groups and arrays.

Geometry and Measurement

- Classify shapes and solids by common characteristics.
- Recognize and use geometric relationships to solve problems.
- Estimate and measure the length of time to complete activities and tasks.
- Use standard units of measure to communicate measurement in a universal manner.

Working with Data: Probability and Statistics

Students will be able to:

- Collect data, organize data in tables and graphs and make comparisons of the data to draw conclusions.
- Analyze data gathered from experiments and identify the likelihood of future events.
- Solve problems using estimation.
- Develop strategies for estimating quantities, sums and differences, and measurement.

