English Language Arts

Develop comprehension strategies and skills (predicting/previewing, making connections, questioning, visualizing, making inferences, monitoring, summarizing, synthesizing)

Create multi paragraph responses with clearly stated main idea, supported with specific details.

Recognize varieties of literature, including non-fiction, fiction, drama, and poetry.

Implement reading strategies to help identify genre, recognize a purpose for reading, develop essential questions, clarify ideas, and summarize the author's viewpoint.

Read and understand the meaning of assigned vocabulary and successfully use it in writing.

Develop vocabulary, especially use of context clues to uncover meaning.

Present in writing a manageable focused topic with relevant supporting details.

Present a manageable, focused topic with relevant, supporting details and specific word choice.

Utilize accurate capitalization, grammar usage, paragraphing, spelling, and punctuation with particular emphasis on quotations.

Develop study and organizational skills.

Locate information using reference material.

Participate in discussion formats with agreed upon rules, present ideas for varying purposes to different audiences, showing appropriate changes in delivery.

Math

Exhibit an understanding of the base ten number system by reading, modeling, writing, and interpreting whole numbers to at least 100,000; demonstrating an understanding of the values of the digits; and comparing and ordering the numbers.

Select, use, and explain models to relate common fractions and mixed numbers (1/2, 1/3, 1/4, 1/5, 1/6, 1/8, 1/10, 1/12, and 1 1/2), find equivalent fractions, mixed numbers, and decimals, and order fractions.

Know multiplication facts through 12 x 12 and related division facts. Use these facts to solve related multiplication problems and compute related problems, e.g., 3 x 5 is related to 30 x 50, 300 x 5, and 30 x 500.

Add and subtract (up to five-digit numbers) and multiply (up to three digits by two digits) accurately and efficiently.

Divide up to a three-digit whole number with a single-digit divisor (with or without remainders) accurately and efficiently. Interpret any remainders.

Use symbol and letter variables (e.g., □, x) to represent unknowns or quantities that vary in expressions and in equations or inequalities (mathematical sentences that use =, <, >).

Determine values of variables in simple equations, e.g., 4106 – □ = 37; □ – □ = 3 and 4 + 5 = □ + 3.

Compare and analyze attributes and other features (e.g., number of sides, faces, corners, right angles, diagonals, and symmetry) of two- and three-dimensional geometric shapes.

Describe, model, draw, compare, and classify two- and three-dimensional shapes, e.g., circles, polygons—especially triangles and quadrilaterals—cubes, spheres, and pyramids.

Identify and use appropriate metric and English units and tools (e.g., ruler, angle ruler, graduated cylinder, thermometer) to estimate, measure, and solve problems involving length, area, volume, weight, time, angle size, and temperature.

Construct, draw conclusions, and make predictions from various representations of data sets, including tables, bar graphs, circle graphs, pictographs, line graphs, line plots, and tallies.

Science

Earth Science

Explore the relationship between weather and climate.

Explain how air temperature, moisture, wind speed and direction, and precipitation make up the weather in a particular place and time.

Distinguish among the various forms of precipitation, giving examples of how the cycling of water, both in and out of the atmosphere, has an effect on climate.

Describe how global patterns such as the jet stream and water currents influence local weather in measurable terms such as temperature, wind direction and speed, and precipitation.

Explore the properties of rocks and soil.

Identify the physical properties of minerals (hardness, color, luster, cleavage, and streak), and explain how minerals can be tested for these different physical properties.

Identify metamorphic, igneous and sedimentary rock based on how they are formed, and explain the natural and physical processes that create these rocks.

Explain and give examples of the ways in which soil is formed and discuss its properties and roles.

Give examples of how the surface of the earth changes due to slow processes, such as erosion and weathering, and rapid processes, such as landslides, volcanic eruption, and earthquakes.

Physical Science

Explore the nature of electricity and magnetism.

Recognize that electricity in circuits requires a complete loop through which an electrical current can pass, and that electricity can produce light, heat and sound.

Identify and classify objects and materials that conduct electricity and objects and materials that are insulators of electricity.

Recognize that magnets have poles that repel and attract each other and identify and classify objects and materials that a magnet will attract and objects and materials that a magnet will not attract.

Social Studies

Identify and describe the five major concepts in studying and learning geography (i.e., location, place, human-environment interaction, movement, and region).

Explore and describe the physical, political and cultural regions of the United States, Canada and Mexico.

Explain how the movements of peoples, goods and ideas from around the world to the United States have influenced and shaped the culture of our society today.

Define and give examples of natural resources of the United States, and how the interaction of buyers and sellers influence the prices of goods and services in markets.

Identify the indigenous people in Massachusetts as well as in different areas of the United States.

Realize and appreciate the diverse nature of the American people by identifying the distinctive contributions to American culture.

Give examples of the different ways immigrants can become citizens of the United States, as well as examples of the major rights that immigrants have acquired as citizens of the United States.

Music

Sing independently using a clear head tone; sing in harmony maintaining own part in two and three part canon; sing and play melodic patterns, intervals, and ostinati to accompany songs or rhythm activities.

Express and understand a varied repertoire of music including a variety of cultural and ethnic musical styles by singing alone and with others, playing rhythm instruments, moving, and listening.

Create and compose simple and complex musical forms (AB, ABA, AABA, Rondo, etc.) and responses by employing improvisational techniques and musical notation.

Identify families of instruments and individual instruments visually and aurally.

Compare and discover relationships between music, the other arts, history and culture by discussing how music connects to the home, school, community, and other places and events where music occurs.

Optional participation in instrumental group lessons.

Art

Recognize value as a way to show 3-D space and recognize how to lighten and darken a color.

Recognize how lines create the illusion of form and begin to investigate 1-point perspective to create the illusion of depth.

Identify how the tools and techniques in various media create visual texture and observe and recreate a given real and visual texture.

Experiment with the placement and size of shapes ina composition and explore creating a center of interest, repetition and/or balance.

Create 2-D and/or 3-D artwork from direct observation, refining observational skills.

View and share constructive and supportive comments within the group concerning artwork.

Revise drafts and work concepts through various stages of development; see art making as a process.

Explore a wide variety of art styles (Realism, Abstract, Op Art, etc.)

Investigate cultural and historical characteristics of different art styles.

Health/Physical Education

Participate in Steps to Respect Program:
Define respect and identify how it affects everything we do; identify and demonstrate friend-making skills; identify emotion-management techniques; define bullying and identify a variety of behaviors; describe the "Three Rs of Responding to Bullying" process; evaluate safety levels in a variety of bullying situations; demonstrate assertive skills and refusing bullying; define rumors and demonstrate blocking rumors; demonstrate reporting bullying to an adult; evaluate how bystanders can support someone who has been bullied; demonstrate evaluating and responding to bullying situations.

Use a variety of manipulative (throwing, catching), locomotor (walking, sliding) and non-locomotor (balancing, extending) skills as individuals and in teams.

Identify the major behaviors that contribute to wellness .

BRAINTREE PUBLIC SCHOOLS

Braintree, Massachusetts

Curriculum Benchmarks

Grade Four

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