English Language Arts

Develop comprehension strategies and skills that make students more independent readers. (predicting/previewing, making connections, questioning, visualizing, making inferences, monitoring, summarizing, synthesizing,)

Recognize a variety of literature, including the four major genres – non-fiction, fiction, drama, and poetry.

Construct in writing an insightful focused topic with sophisticated supporting details.

Demonstrate accurate capitalization, grammar usage, punctuation, spelling, and paragraphing, and manipulate conventions for stylistic effect.

Locate information using reference material, (glossary, dictionary, encyclopedia, globe, atlas, almanac, and thesaurus) demonstrate library skills, and utilize maps, time lines, graphs, and schedules.

Identify and respond to literary techniques, including figurative language (similes, metaphors, personification, alliteration, onomatopoeia, idioms, imagery, exaggeration/ humor/rhythm theme repetitions).

Use the writing process of prewriting, drafting, revising, proofreading, publishing to compose stories, short essays, informational reports or presentations and coherent compositions, using common expository organizational structure.

Recognize parts of speech including nouns, verbs, adjectives, adverbs, pronouns, prepositions, and conjunctions.

Use correct punctuation in writing including quotation marks and commas, and revise own writing with a more precise vocabulary and knowledge of sentence mechanics (simple/compound, exclamatory, declarative, imperative, interrogative).

Demonstrate context clues to spell to determine new vocabulary for comprehension and use in writing and speaking.

Participate in discussion formats with agreed upon rules, use interview techniques to gather information and present similar content for varying purposes to different audiences, showing appropriate changes in delivery.

Use a variety of media, such as card catalogs, databases, and electronic almanacs for research.

Math

Demonstrate an understanding of place value through millions and thousandths.

Identify and determine common equivalent fractions (with denominators 2, 4, 5, 10) and mixed numbers (with denominators 2, 4, 5, 10), decimals, and percents (through 100%), e.g. 3/4 = 0.75 = 75%.

Accurately and efficiently add, and subtract whole numbers and positive decimals. Multiply and divide (using double digit divisors) whole numbers. Multiply positive decimals with whole numbers.

Accurately and efficiently add and subtract positive fractions and mixed numbers with like denominators and with unlike denominators (2, 4, 5, 10 only); multiply positive fractions with whole numbers. Simplify fractions in cases when both the numerator and the denominator have 2, 3, 4, 5 or 10 as a common factor. Simplify fractions.

Analyze and determine the rules for extending symbolic, arithmetic, and geometric patterns and progressions, e.g., ABBCCC; 1, 5, 9, 13 …; 3, 9, 27, ….

Use the properties of equality to solve problems with whole numbers, e.g., if □ + 7 = 13, then □ = 13 – 7, therefore □ = 6; if 3 x □ = 15, then 3 x □ divided by 3 = 15 divided by 3, therefore □ = 5.

Represent real situations and mathematical relationships with concrete models, tables, graphs, and rules in words and with symbols, e.g., input-output tables.

Identify, describe and compare special types of triangles (isosceles, equilateral, right) and quadrilaterals (square, rectangle, parallelogram, rhombus, trapezoid) e.g., recognize that all equilateral triangles are isosceles but not all isosceles triangles are equilateral.

Identify, describe and compare special types of three-dimensional shapes (e.g., cubes, prisms, spheres, and pyramids) based on their properties, such as edges and faces.

Identify, measure, describe, classify, and draw various angles. Draw triangles given two sides and the angle between them, or given two angles and the side between them, e.g., draw a triangle with one right angle and two sides congruent.

Given a set of data, find the median, mean, mode, maximum and minimum, and range. Apply these to solutions of problems.

Science

Life Science

Identify the structures in plants (leaves, roots, flowers, stem, bark, wood) that are responsible for food production, support, water transport, reproduction, growth and protection.

Recognize plant behaviors, such as the way seedlings' stems grow toward light and their roots grow downward in response to gravity.

Differentiate between characteristics of plants and animals that are fully inherited and those that are acquired; behaviors that are instinctive and those that are learned.

Give examples of how adaptations arise in a population over time, that is, how inherited characteristics within a population may change as animals less well-suited to the environment die.

Recognize that many plants and animals can survive harsh environments because of seasonal behaviors, e.g., in winter, some trees shed leaves, some animals hibernate, and other animals migrate.

Describe how energy derived from the sun is used by plants to produce sugars (photosynthesis) and is transferred within a food chain from producers (plants) to consumers and decomposers.

Physical Science

Identify the basic forms of energy and recognize that energy is the ability to cause motion or create change.

Give examples of how energy can be transformed from one form to another.

Recognize that sound is produced by vibrating objects and requires a medium through which to travel.

Relate the rate of vibration to the pitch of sound.

Recognize that light travels in a straight line until it strikes an object or travels from one medium to another, and that light can be reflected, refracted, and absorbed.

Identify tools and simple machines used for a specific purpose, e.g., ramp, wheel, pulley, and lever.
Identify and explain the difference between simple and complex machines.

Social Studies

Describe the discovery and colonization of the Americas.

Explain the influence that geography had on who settled North America and where they settled.

Discuss the causes and consequences of the English Colonization in North America.

Identify the English Colonies in North America, and its relationships to the colonies of other European nations and to the indigenous peoples.

Identify and describe the social, political, and economic factors which led to the development of a pursuit for independence.

Discuss the role of Massachusetts in the War for Independence.

Explain the role and purpose of government and the Constitution.

Give examples of the responsibilities and powers associated with major federal, state, and local officials.

Explain the young structure of the town government in Braintree.

Describe the rights and responsibilities of citizenship.

Give examples of the ways people save their money and explain the advantages and disadvantages of each.

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.

Music continued

Discuss careers, lives, and stylistic characteristics of selected composers.

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 band or orchestra

Art

Explore the use of value to show 3-D space.
Review and use all line theories and techniques, and identify how converging lines create illusion of space. (Cityscape, landscape, 1-point perspective).
Identify and use all types of shapes (geometric, organic, free form)
Explore using texture to create contrast in a composition for added interest.
Review and use all color theories, and recognize and use emotional associations of color.
Begin using symbolism in artwork.
Begin to maintain a portfolio of sketches and finished work.
Begin to create 2-D and 3-D representational artwork from direct observation.
Revise drafts and work concepts through various stages of development. See art making as a process.
Discuss how art connects to students' daily lives, homes, communities, and other subject disciplines, apply their knowledge of the arts to the study of English, social studies, math and science.

Health/Physical Education

Participate in Steps to Respect Program:
Explain how to incorporate respect into daily interactions. Identify ways to build trust in a friendship; define conflict and demonstrate managing emotions during a conflict; demonstrate problem solving skills when resolving conflicts; distinguish between bullying and conflict; distinguish between face to face bullying and behind the back bullying; identify the steps for safely responding to bullying; demonstrate reporting bullying to an adult; define bystander and evaluate the safety of how to respond; explore the positive influence of older students on younger students; define community and the role students play in maintaining a safe, caring, and respectful school community.

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 Five

Administrative Offices

348 Pond Street
Braintree, MA 02184
781-380-0130 (phone)
781-380-0146 (fax)

www.braintreeschools.org