

KINDERGARTEN

MATH

NUMBER CONCEPTS AND OPERATIONS

- K.1 Apply number concepts and operations to real world situations.
 - K.1.1 Use whole numbers to 12 (oral and written) to describe quantity of concrete and pictorial models in a set.
 - K.1.2 Use one-to-one correspondence to determine quantity in a set.
 - K.1.3 Use language to compare quantities of sets of concrete objects (one more than, same as, one less than).
 - K.1.4 Use sets of concrete objects to represent quantities given in verbal or written form (through 12).
 - K.1.5 Name the ordinal positions in a sequence (through tenth).
 - K.1.6 Create addition and subtraction problems in real situations with concrete objects (sums and differences below 12).
 - K.1.7 Represent concrete addition and subtraction problems with number sentences (sums and differences below 12).
 - K.1.8 Use language to describe the relative positions of numbers on a number line (before or after).
 - K.1.9 Recognize that there are quantities less than a whole ($1/2$).
 - K.1.10 Develop an appropriate problem-solving strategy including drawing a picture, looking for a pattern, guessing and checking, or acting it out to solve a problem.
 - K.1.11 Use tools such as real objects, manipulatives, calculators, and other technology to solve problems.

GEOMETRY AND SPATIAL REASONING

- K.4 Apply the principles of geometry to the environment.
 - K.4.1 Describe one object in relation to another using language of position (over, under, above, below, etc.).
 - K.4.2 Place an object in a specified position.
 - K.4.3 Describe and identify an object by its attributes.
 - K.4.4 Compare two objects based on their attributes.
 - K.4.5 Sort objects according to their attributes and describe how those groups are formed.
 - K.4.6 Describe and compare real-life objects or models of solids.
 - K.4.7 Identify shapes in real-life objects or models of solids.
 - K.4.8 Identify circles, triangles, rectangles, ovals and squares.

MEASUREMENT

- K.5 Interpret real world situations using measurement concepts.
 - K.5.1 Compare and order concrete objects according to length (shorter, longer).
 - K.5.2 Compare and order concrete objects according to capacity (holds more, holds less).
 - K.5.3 Compare and order concrete objects according to weight (lighter, heavier).
 - K.5.4 Compare situations or objects according to temperature (hotter, colder).
 - K.5.5 Compare events according to duration of time (more or less time).
 - K.5.6 Describe time using hours on an analog or digital clock.
 - K.5.7 Recognize that time and temperature can be measured.

READING/LANGUAGE ARTS

READING

- K.1 Use strategies to construct meaning from print.
 - K.1.1 Understand that print carries meaning.
 - K.1.2 Understand concepts of English print (directionality, front to back, top to bottom, etc.)
 - K.1.3 Distinguish between pictures, letters, words, sentences.
 - K.1.4 Relate speech and pictures to print.
 - K.1.5 Activate background knowledge to enhance comprehension.
 - K.1.6 Make and revise predictions through use of pictures, title, pattern in text, and background knowledge.
 - K.1.7 Explain purpose for reading.
 - K.1.8 Identify concepts of “story” (characters, events, setting, etc.).
 - K.1.9 Engage in reading-like behavior (holds book, left to right tracking, turns pages, refers to pictures, etc.).
 - K.1.10 Discuss role of author and illustrator.
 - K.1.11 Identify title and relationship to the story.
 - K.1.12 Identify capital and lower case manuscript alphabet in random order.
 - K.1.13 Identify sound/symbol relationships in random order.
 - K.1.14 Recognize name and other high interest words (environmental print, etc.).
 - K.1.15 Begin to build a sight vocabulary.
 - K.1.16 Recognize, match, and create rhyming words.
 - K.1.17 Apply sound blending to decode consonant-vowel-consonant words.
 - K.1.18 Create word families (onsets and rimes: hall, ball, call, tall...).
 - K.1.19 Demonstrate interest and enjoyment in printed material.
 - K.1.20 Share responses to literature and poetry.
 - K.1.21 Develop an appreciation for reading through regular exposure and independent practice.
 - K.1.22 Use punctuation and capitalization to gain meaning from text.
 - K.1.23 Demonstrate a basic familiarity with selected fiction and poetry.
 - K.1.24 Demonstrate a basic familiarity with selected works of non-fiction.

WRITING

- K.2 Record thoughts in writing.
 - K.2.1 Understand that writing expresses meaning.
 - K.2.2 Initiate the writing process through pictures and discussion.
 - K.2.3 Use print to convey meaning.
 - K.2.4 Apply concepts of print to written work (directionality, top to bottom, etc.).
 - K.2.5 Use writing as a creative form of expression.
 - K.2.6 Use pictures and written text to respond to information.
 - K.2.7 Write simple sentences.
 - K.2.8 Apply letter/sound correspondence (single sounds in initial, medial and final position) to functional spelling of words.
 - K.2.9 Reproduce upper and lower case letters.
 - K.2.10 Demonstrate conventional spelling of selected core high frequency sight words in daily writing.
 - K.2.11 Participate in frequent and regular writing opportunities.

LISTENING

- K.3 Focus attention and respond to oral information.
 - K.3.1 Demonstrate positive receptive body language (eye contact, posture, smiles, etc.).
 - K.3.2 Demonstrate active listening through verbal and non-verbal responses.
 - K.3.3 Demonstrate purposeful listening to others in various group situations.
 - K.3.4 Follow two and three-step oral directions.
 - K.3.5 Demonstrate auditory awareness of word similarities and differences.

SPEAKING

- K.4 Express thoughts and ideas orally.
 - K.4.1 Contribute to discussions.
 - K.4.2 Share and describe personal experiences.
 - K.4.3 Ask relevant questions to meet personal needs or to clarify information.
 - K.4.4 Use age-appropriate vocabulary, pronunciation and grammar.
 - K.4.5 Participate in dramatic activities (story re-creation, role play, etc.).
 - K.4.6 Retell stories.
 - K.4.7 Recite the texts of a variety of familiar rhymes.

SCIENCE

Please see the [Core Knowledge Sequence](#) that is used in this area for additional curriculum standards and information.

LIFE SCIENCE

- K.1 Understand the characteristics of living things, the diversity of life, and how living things interact with each other and with their environment.
 - K.1.1 Distinguish between living and nonliving things.
 - K.1.2 Describe the basic needs of an organism.
 - K.1.3 Give examples of how organisms interact with each other and with nonliving parts of their habitat.

EARTH SCIENCE

- K.2 Understand the composition of the earth, its history, the natural processes that shape it, and its place in the universe.
 - K.2.1 Describe what can be readily observed by the unaided eye in the daytime and nighttime sky (i.e., sun, moon, planets, stars, constellations, etc.).
 - K.2.2 Investigate the motion of the earth in relation to the sun to explain the concept of day and night.
 - K.2.3 Identify the sun as a principle source of earth's heat and light.
 - K.2.4 Describe how daily activities are affected by weather (i.e., types of clothing, travel, recreation, food, etc.).
 - K.2.5 Describe characteristics of seasons.

PHYSICAL SCIENCE

- K.3 Understand common properties, forms, and changes in matter and energy.
 - K.3.1 Describe objects by their composition (i.e., wood, metal, etc.) and physical properties (i.e., color, size, shape).
 - K.3.2 Classify objects by their composition and physical properties.
 - K.3.3 Demonstrate through investigations how the senses are used to observe physical characteristics of objects.

- K.3.4 Demonstrate the principle of motion (the motion of an object can be changed by a push or a pull).
- K.3.5 Describe the position of an object relative to another object.
- K.3.6 Give examples of forms of motion (straight line, zig zag, vibrational or circular).

HEALTH

- K.4 Understand how to maintain and promote personal health.
 - K.4.1 Identify major body parts (internal and external) and their functions.
 - K.4.2 Identify and demonstrate use of the five senses.
 - K.4.3 Identify types of foods that help the body grow.
 - K.4.4 Identify personal health habits that help a person stay healthy (balanced diet, clean hands, proper amount of sleep, exercise and active play).
 - K.4.5 Demonstrate procedures for responding to emergencies (911) and how to get help from a parent or trusted adult.
 - K.4.6 Demonstrate and describe safety rules during physical activity (bike safety, water safety, or pedestrian safety).

SOCIAL STUDIES

Please see the [Core Knowledge Sequence](#) that is used in this area for additional curriculum standards and information.

Focus: Self, home, school

HISTORY

- K.1 Understand that change occurs over time.
 - K.1.1 Understand broad categories of time (i.e., long, long ago; long ago; yesterday; today; tomorrow).
 - K.1.2 Describe changes in personal history (growth and development, clothing, food, family structure, etc.).
 - K.1.3 Use vocabulary related to time and chronology, including before, after, next, first, and last.
 - K.1.4 Identify various national and cultural holiday celebrations that are related to historical events (i.e., President's Day, Independence Day, Thanksgiving, etc.).

GEOGRAPHY

- K.2 Understand the physical and man-made characteristics of the environment.
 - K.2.1 Locate places in school and own neighborhood.
 - K.2.2 Describe location of places using terms of relative location (i.e., over, under, near, far, left, right, etc.)
 - K.2.3 Understand the relationship between the physical characteristics of places and human behavior (i.e.: types of houses, ways of earning a living, recreation, etc.).
 - K.3.0 Understand maps and globes are graphic representations of actual places.
 - K.3.1 Identify major geographic features of regions, countries and continents on maps and globes (i.e.: rivers, mountains, oceans, land, boundaries).
 - K.3.2 Locate and identify the United States and major oceans on a map and globe.

ECONOMICS

- K.4 Understand that basic human needs are met in many ways.

- K.4.1 Identify basic human needs (food, shelter, clothing, love).
- K.4.2 Identify jobs in the home, school and community.
- K.4.3 Explain the importance of jobs in the home, school and community in providing for basic human needs.
- K.5.0 Understand that the wants of people are unlimited but resources are limited.
- K.5.1 Identify and distinguish between wants and needs.
- K.5.2 Explain why one may or may not have all they want.

CIVICS/GOVERNMENT

- K.6 Understand that rules and laws help people live and work together.
 - K.6.1 Identify purposes for having rules.
 - K.6.2 Identify rules that provide order and safety in the home and school.
 - K.6.3 Recognize that groups in the home, school, and community have leaders.
 - K.6.4 Explain the use of voting as a method for group decision making.

- K.7 Understand the important customs, symbols, and celebrations that reflect the American heritage and identity.
 - K.7.1 Listen to and perform traditional and patriotic songs.
 - K.7.2 Identify the flags of the United States and the state of residence.
 - K.7.3 Identify and understand the significance of American holidays.
 - K.7.4 Understand the importance of the Pledge of Allegiance.

SOCIOLOGY/ANTHROPOLOGY

- K.8 Understand and appreciate that each individual is unique.
 - K.8.1 Identify personal attributes common to all people.
 - K.8.2 Identify differences among people.
 - K.8.3 Demonstrate appreciation for the contributions of individuals to the group.

MUSIC

Please see the [Core Knowledge Sequence](#) that is used in this area for additional curriculum standards and information.

- K.1 The student describes and analyzes musical sound and demonstrates musical artistry. The student is expected to:
 - K.1.1 Identify the difference between the singing and speaking voice.
 - K.1.2 Identify the timbre of adult voices and instruments.
- K.2 The student performs a varied repertoire of music. The student is expected to:
 - K.2.1 Sing or play classroom instruments independently or in a group.
 - K.2.2 Sing songs from diverse cultures and styles.
- K.3 The student relates music to history, to society, and to culture. The student is expected to:
 - K.3.1 Sing songs and play musical games from different cultures.
 - K.3.2 Identify simple relationships between music and other subjects.
- K.4 The student responds to and evaluates music and musical performance. The student is expected to:
 - K.4.1 Identify steady beat in musical performances.
 - K.4.2 Identify higher/lower, louder/softer, faster/slower and same/different in musical performances.

PHYSICAL EDUCATION

The three basic concepts addressed in the physical education standards are movement, physical activity /health and social development.

- K.1 The student demonstrates competency in fundamental movement patterns and proficiency in a few specialized movement forms. The student is expected to:
 - K.1.1 Travel in different ways in a large group without bumping into others or falling;
 - K.1.2 Demonstrate clear contrast between slow and fast movement when traveling;
 - K.1.3 Demonstrate non-locomotion movements such as bend and stretch;
 - K.1.4 Maintain balance while bearing weight on a variety of body parts;
 - K.1.5 Demonstrate a variety of relationships such as under, over, through, behind, next to, right, left, up, down, forward, backward, and in front of;
 - K.1.6 Roll sideways (right or left) without hesitation;
 - K.1.7 Toss a ball and catch it before it bounces twice.
- K.2 The student applies movement concepts and principals to the learning and development of motor skills. The student is expected to:
 - K.2.1 Identify selected body parts such as head, back, chest, waist, hips, arms, elbows, wrists, hands, fingers, legs, knees, ankles, feet, and toes;
 - K.2.2 Demonstrate movement forms of various body parts such as head flexion, extension, and rotation.
- K.3 The student exhibits a health enhancing, physically–active lifestyle that improves health and provides opportunities for enjoyment and challenge. The student is expected to:
 - K.3.1 Describe and select physical activities that provide opportunities for enjoyment and challenge;
 - K.3.2 Participate in moderate to vigorous physical activities on a daily basis that cause an increased heart rate, breathing rate, and perspiration;
 - K.3.3 Lift and support his/her own weight in selected activities that develop muscular strength and endurance of the arms, shoulders, abdomen, back, and legs such as hanging, hopping, and jumping;
 - K.3.4 Describe the benefits from involvement in daily physical activity such as feeling better and sleeping well.
- K.4 The student knows the benefits from being involved in daily physical activity and factors that affect physical performance. The student is expected to:
 - K.4.1 Observe and describe the immediate effect of physical activity on the heart and breathing rate and perspiration;
 - K.4.2 Locate the lungs and explain their function;
- K.5 The student understands safety practices associated with physical activity and space. The student is expected to:
 - K.5.1 Use equipment and space properly;
 - K.5.2 Know and apply safety practices associated with physical activity such as not pushing in line, importance of drinking water during activity, water safety rules (never swim alone, never run around pools, look before you jump, enter feet first).
 - K.5.3 Explain appropriate safety procedures during emergencies in physical activities.
- K.6 The student understands basic components such as strategies and rules of structured physical activities including, but not limited to, games, sports and dance. The student is expected to:

- K.6.1 Respond appropriately to starting and stopping signals;
- K.6.2 Demonstrate the ability to play within boundaries during games and activities.
- K.7 The student develops positive self-management and social skills needed to work independently and with others in physical activity settings. The student is expected to:
 - K.7.1 Follows rules, procedures, and safe practices;
 - K.7.2 Work in group settings, share space and equipment with others.

VISUAL ARTS

Please see the [Core Knowledge Sequence](#) that is used in this area for additional curriculum standards and information.

- K.1 Develop perceptions to increase visual awareness and sensitivity to surroundings. The student develops and organizes ideas from the environment. The student is expected to:
 - K.1.1 Gathers information from the environment using the five senses.
 - K.1.2 Identify colors, textures, forms, and subjects in the environment.
- K.2 Express thoughts and ideas creatively, using a variety of media with appropriate skill. The student is expected to:
 - K.2.1 Create artworks using a variety of colors, forms and lines.
 - K.2.2 Develop manipulative skills when drawing, painting, printmaking, and constructing artworks, using a variety of materials.
- K.3 Demonstrate an understanding of art history and culture as records of human achievement. The student is expected to:
 - K.3.1 Identify simple subjects expressed in artworks.
 - K.3.2 Share ideas about personal artworks and the work of others, demonstrating respect for differing opinions.

FOREIGN LANGUAGE

Language study is best begun in kindergarten (or earlier) and continued without interruption through grade 12 and beyond. Research confirms that children easily and naturally acquire language at an early age. The degree of proficiency is directly proportional to the amount of time spent by students in meaningful study. The student develops insight into the nature of language and culture by comparing the student's own language and culture to another.

- 1.1 The student communicates in a language other than English using the skills of listening, speaking, reading, and writing.
 - 1.1.1 Students listen to and derive meaning from a variety of foreign language sources. In order to meet this standard the student will:
 - Recognize common expressions;
 - Obtain meaning from diverse listening sources;
 - Demonstrate comprehension through appropriate responses; and
 - Engage in a variety of listening situations.
 - Comprehend common memorized words, expressions, and cognates (a word related to one in another language) when hearing the foreign language spoken from a variety of sources;
 - Demonstrate comprehension of everyday conversations including familiar situations and simple instructions.
 - 1.1.2 Students speak in a foreign language for a variety of purposes and for diverse audiences. In order to meet this standard, a student will:

- Apply pronunciation rules and intonation patterns;
 - Use vocabulary, grammatical forms, and structures of the target language to convey meaning;
 - Apply knowledge of cultural practices to spoken language;
 - Express needs, tell stories, obtain and convey information, explain concepts and procedures, and persuade; and
 - Interact with speakers of the language in a variety of venues: personal, business, dramatic presentations.
 - Use learned pronunciation and intonation patterns;
 - Speak in predictable, familiar situations using learned vocabulary and phrases;
 - Express personal opinions and desires with learned phrases;
 - Describe everyday topics using appropriate vocabulary and grammatical structures;
 - Ask and answering simple questions.
- 1.1.3 Students read and derive meaning from a variety of materials written in a foreign language. In order to meet this standard, students will;
- Recognize words, phrases, idiomatic expressions, and grammatical structures;
 - Demonstrate comprehension of reading materials written for a variety of purposes;
 - Use and apply the information gained from reading;
 - Respond to the cultural elements contained in reading materials of the language.
 - Recognize and understand cognates (a word related to one in another language) and expressions;
 - Infer meaning of unfamiliar words from context;
 - Show comprehension of reading materials;
 - Identify cultural elements found in reading materials.
- 1.1.4 Students write in a foreign language for a variety of purposes and for diverse audiences. In order to meet this standard, students will:
- Write for purposes such as relating personal experiences, obtaining and conveying information, explaining ideas and opinions, and persuading;
 - Write for audiences such as peers, teachers, and community members;
 - Plan, draft, revise, proof read, and edit written communications;
 - Use correct grammar, sentence structure, vocabulary, spelling, punctuation, and capitalization to convey meaning;
 - Write about everyday topics and express personal opinions and desires using learned vocabulary phrases and grammatical structures;
 - Obtain and report information for a variety of audiences
 - Proofread and rewrite their own work;
 - Use appropriate grammar, spelling, capitalization, and punctuation;
- 2.1 The student gains knowledge and understanding of other cultures. The student is expected to:
- Demonstrate knowledge of aspects of foreign cultures such as daily life, education, history, geography, government, economics, and the arts;
 - Apply knowledge of cultural practices when communicating in a foreign

language;

- Use the foreign language to access cultural information available only in that language.
- Observe and identify everyday cultural practices (what people do).
- Use culturally appropriate gestures and oral expressions for common or familiar classroom interactions.
- Listen to or read materials in the language from the cultures being studied.