

FOURTH GRADE

Art

- Indicate a knowledge of appropriate art terms that have been taught relating to art elements
- Demonstrate sufficient skill in ceramics to use the pinch, coil, or slab process
- Discuss different methods to show depth; such as placement, one-point perspective, size, and overlapping
- Identify the medium used on particular projects
- View a man-made object and identify the specific type of artist; such as a building architect, book illustrator, or fashion designer
- Use a limited number of art terms that have been taught relating to the description of an art reproduction
- Complete Fourth Grade-level art projects
- Form opinions about art; what is art, who makes it, and why it is important
- Continue the use, application and development of previously developed skills

English Language Arts

- Use knowledge of phonics, word analysis, syllabication, and/or context clues to decode words
- Read text with fluency and accuracy to support comprehension
- Demonstrate understanding of key ideas and details in literature and informational texts by summarizing, determining theme, citing relevant details, making inferences, and describing character, setting, or event
- Demonstrate understanding of craft and structure in literature and informational texts by comparing and contrasting an event or topic told from two different points of view and by using text structure to interpret information
- Demonstrate understanding of connections within, between, and/or among texts by comparing and contrasting similar themes, topics, patterns of events in literature and by integrating information from two non-fiction texts and explaining how authors use evidence and specific text features in informational text to support and demonstrate their points
- Demonstrate understanding of vocabulary and figurative language in literature and informational texts
- Write opinion pieces with point of view supported by reasons and information; informative/explanatory texts to convey information clearly; and narratives to develop real or imagined experiences or events using effective technique, descriptive details, and clear event sequences
- Draw evidence from literary or informational texts to support analysis, reflection, and/or research
- Demonstrate command of the conventions of standard English grammar and usage, capitalization, punctuation, and spelling
- Use effective speaking and listening skills during presentations and when engaging in collaborative discussions on grade-level topics and texts

Computer Education

- Identify computer-related careers and innovations in society
- Select text/format with font options
- Edit alignment/justification, line spacing, margins
- Use proofreading tools
- Create/import/manipulate graphics
- Use the thesaurus and definitions
- Effective and appropriate utilization of sound/video/music
- Use various view options
- Apply design principles to layout and font
- Use proper citation methods for sources and pictures
- Understand/adhere to copyright laws

- Understand/adhere to hardware and software licensing agreements
- Search for, locate, download, and save non-copyrighted images from the Internet
- Work cooperatively and collaboratively with others when using technology
- Demonstrate proper usage of equipment
- Troubleshoot wireless connectivity issues
- Use Power Point and other software appropriate to the fourth grade curriculum

Health

- Identify his/her strengths and weaknesses, attitudes, and good mental health
- Indicate a knowledge of the major body systems
- Indicate a knowledge of cells, tissues, and organs; the structure and function of skin, nails, and hair; the brain; respiration, and circulation
- Indicate a knowledge of types of nutrients, water, and food groups
- Indicate a knowledge of exercise and the importance of sleep
- Indicate a knowledge of alcohol and tobacco, peer pressure, advertising methods, and laws concerning marijuana
- Indicate a knowledge of infectious diseases; disease agents; body defenses; disease prevention; smoking and lung disease
- Indicate a knowledge of body systems
- Indicate knowledge of cutting fats and sugar in daily diets

Library Services

- Consistently demonstrate appropriate library citizenship and etiquette while being considerate of other patrons and the library itself.
- Demonstrate independent library use with easy fiction, easy nonfiction, fiction, nonfiction, biography and reference sections of the library. Use signage and call number structure to locate materials. Identify which section of the library a book is housed based on its call number structure.
- Demonstrate the proper care of library materials.
- Demonstrate the procedure for borrowing and returning library materials.
- Demonstrate an appreciation for literature by studying genres that augment classroom resources and expand personal interests. Recognize famous authors, and the purpose of the Newberry Award, while being exposed to themes of award winning literature.
- Differentiate between fiction, nonfiction, biography and periodical text and the different way these texts are organized in the library. Compare elements of organization in nonfiction and fiction texts. Recognize periodicals can be used as a source of current information.
- Demonstrate safe and appropriate usage of online materials both to care for the technology itself and to safely search for information. Recognize the organization of online research materials.
- Demonstrate the usage of a standard research model, the Big 6, to answer specific research questions. Demonstrate the usage of Elementary Library Materials Organizer (ELMO) to answer teacher directed research questions.
- Demonstrate the usage of the Dewey Decimal System to locate resources. Identify and use the ten main groups of the Dewey Decimal System.
- Demonstrate how to use reference tools such as dictionaries, thesauri, print and online encyclopedias, almanacs and online periodical databases to access information. Demonstrate using the organizational tools of these references such as alphabetical order, guidewords, volume arrangement, indexes, keyword and subject searching.
- Demonstrate how to use the electronic card catalog by completing subject, author, and title searches and locating materials on the shelves.

Mathematics

Facts

- Demonstrate knowledge of basic facts for addition, subtraction, multiplication and division

Numbers and Operations in Base Ten

- Read, write, compare, round whole numbers in standard, expanded, and word form through 1,000,000
- Use mental math to add and subtract whole numbers and to estimate products and quotients
- Fluently add and subtract multi-digit whole numbers (limit sums up to and including 1,000,000)
- Use the four operations to solve one-step and multi-step word problems involving whole numbers and fractions
- Multiply a whole number of up to four digits by one-digit whole number and 2, two-digit numbers using grids/arrays or area models and by using the standard algorithm
- Divide up to four-digit dividends by one-digit divisors with answers written as whole number quotients and/or remainders using models and the standard algorithm

Algebraic Concepts

- Interpret and represent verbal statements of multiplicative comparisons as multiplication equations; find factors and list multiples; identify multiples as prime or composite
- Generate a number or shape pattern that follows a given rule
- Determine the missing elements or the rule for a given function table
- Represent multi-step word problems using equations with a symbol or letter standing for the unknown quantity

Fractions

- Recognize and generate equivalent fractions; compare and order fractions with different numerators and different denominators
- Add and subtract fractions and mixed numbers with like denominators, and multiply a whole number by a fraction
- Use decimal notation to write and compare fractions with denominators 10 or 100 as decimals

Data and Graphing

- Make a line plot to display a set of data
- Translate information from one type of display to another (table, chart, bar graph, or pictograph)

Geometry

- Identify points, lines, line segments, rays, angles (right, acute, obtuse), right triangles, perpendicular and parallel lines, and lines of symmetry
- Classify two-dimensional figures
- Apply the area and perimeter formulas for rectangles in real-world and mathematical problems
- Measure and sketch angles in whole-number degrees using a protractor

Measurement

- Know relative sizes of measurement units in standard and metric systems and units of time
- Convert measurements from a larger to a smaller unit using a table of equivalencies
- Identify time as the amount of minutes before or after the hour
- Use the four operations to solve word problems involving distances, intervals of time (such as elapsed time), liquid volumes, masses of objects; money, fractions, and conversions from a larger unit to a smaller unit

Music

- Improve the ability to sing and play in tune, articulate, and improvise with the voice
- Recognize, sing, play, and identify melodic patterns
- Use correct music notation; i.e. note names, proper note, rest values, staff, treble clef, meter signatures, etc.
- Perform with rhythmic accuracy by using notation
- Identify and move to different rhythmic meters
- Describe music as major or minor
- Experiment with various ways to create harmony
- Identify forms of music composition
- Gain mastery of classroom instruments and band instruments
- Demonstrate an understanding of vocal combinations
- Identify instrument families and tone colors
- Demonstrate proper tempo and dynamic markings
- Experience music of other cultures and music of earlier periods in history
- Listen to, contrast, and discuss various repertoires as an aid to understanding and appreciating music

Physical Education

- Develop the components of strength, flexibility, and endurance
- Identify introductory skills for the following team sports: soccer, hockey, basketball, volleyball, and track and field
- Identify introductory skills for racquet sports, such as badminton and paddle ball
- Perform more complex ball-handling skills
- Continue self-assessment activities by performing strength, flexibility, and agility exercises
- Demonstrate the importance of daily exercise
- Perform folk, square, and novelty dances
- Demonstrate the importance of cooperation and fair play
- Explain and demonstrate good sportsmanship

Science

Scientific Methods

- Apply the scientific process to solve real-life problems
- Select appropriate technological tools to collect, analyze, and communicate information and ideas
- Recognize and evaluate the relationship between technological advances and society

Animals

- Describe living things, their appearance, different types of life, the scope of their similarities and differences, where and how they live and how life has changed over time
- Identify the biological requirement of humans, and analyze the relationship between the use of natural resources and society's needs
- Describe and evaluate how human actions affect environmental health issues
- Explain various integrated pest management concepts and practices used in society
- Describe the biological diversity of an ecosystem and explain how natural or human actions cause the loss of species
- Identify changes in living things over time

Forces and Motion

- Integrate the fundamental concepts of technology; motion in force, energy, structure of matter, change over time, and simple machines
- Investigate the structure and properties of objects

Watersheds and Wetlands

- Describe Earth's different sources of water or describe changes in the form of water
- Identify and explain the living and non-living characteristics of water environments
- Examine the flow of energy within an ecosystem and how its organisms have changed over time
- Analyze the needs of people and factors affecting the availability of renewable and non-renewable resources
- Describe and evaluate how human actions affect environmental health issues
- Identify and describe environmental laws and regulations

Weather

- Identify basic weather conditions and how they are measured
- Identify basic cloud types and make connections to basic elements of weather
- Identify weather patterns from data charts or graphs of the data
- Identify appropriate instruments to study weather and what they measure

Geology

- Investigate the structure and properties of objects
- Use principles from physical sciences, geography, and mathematics to study the forces of nature that build the earth and wear down the earth
- Describe basic landforms in Pennsylvania
- Identify the types and uses of Earth's resources

Social Studies

- Identify the different regions of the U. S. and their geographical aspects
- Identify the various geographical aspects of Pennsylvania
- Trace the historical and cultural development of Pennsylvania
- Recognize that all people of Pennsylvania live under local, state, and national governments
- Identify the causes of conflict within a society and numerous ways conflict can be resolved
- Identify and review the seven continents, four oceans, and North and South Pole
- Use cardinal and intermediate directions to find and give directions for a given place on a map
- Use maps and globes to locate places around the world. Compare the uses of maps and globes
- Locate, interpret, and design places using a map key
- Create a readable map which includes: cardinal to intermediate directions on a compass rose, map key, symbols, and distance scale
- Use a map grid to locate a place on a map and name the grid location of that place
- Read and interpret information on special-purpose maps
- Compare and contrast the uses of maps and globes
- Review the northern and southern hemispheres and identify the eastern and southern hemisphere using the Prime Meridian as the dividing line
- Identify latitude and longitude on a map and globe
- Introduce concept of time zones

Guidance

Academic Domain:

- Acquire Skills for Improving Learning
 - Apply time-management and task-management skills
 - Develop a broad range of interests and abilities
 - Use communications skills to know when and how to ask for help when needed
 - Apply knowledge and learning styles to positively influence school performance
- Improve Learning
 - Learn and apply critical-thinking skills
 - Apply the study skills necessary for academic success at each level
 - Organize and apply academic information from a variety of sources
 - Use knowledge of learning styles to positively influence school performance

Career Domain:

- Develop Career Awareness
 - Develop skills to locate, evaluate and interpret career information
 - Learn about the variety of traditional and nontraditional occupations
 - Understand the importance of planning
 - Pursue and develop competency in areas of interest
 - Develop hobbies and vocational interests
 - Explore how people prepare for careers
 - Explain why education and training plans are important to careers
 - Explain how workers in their careers use what is learned in the classroom

Personal/Social Domain:

- Acquire Interpersonal Skills
 - Identify and express feelings
 - Distinguish between appropriate and inappropriate behavior
 - Recognize that everyone has rights and responsibilities
 - Recognize, accept, respect and appreciate individual differences
 - Recognize, accept and appreciate ethnic and cultural diversity