STAFFORD COUNTY PUBLIC SCHOOLS

Curriculum Overview
Grade 4

Course Description:
The fourth-grade student will communicate orally in large- and small group settings. Students will read classics and contemporary literature as well as materials related to the content areas. Students will develop and apply research and study skills. Mathematics instruction will emphasize problem solving, communicating, reasoning, making connections and using representations. Scientific investigations are conducted with an emphasis on analyzing and presenting data. Social studies instruction will focus on people, places, and events in Virginia history and an overview of Virginia today. Students will develop skills and concepts in art and music with study in art history and world cultures. Students will create, produce, and respond to their work and the work of others. Health will emphasize basic areas such as first aid, disease control and prevention, and bicycle/vehicle safety. Physical education will continue to refine basic movement and sport skills as used in sports and fitness activities.

Essential Knowledge and Skills/Processes:

READING/ENGLISH:
- Use effective oral communication skills in a variety of settings
- Use grammatically correct language and specific vocabulary to communicate ideas
- Collaborate with diverse groups across the curriculum
- Create oral presentations and reports both collaboratively and independently using language and style appropriate to the audience, topic, and purpose
- Differentiate between auditory, visual, and written media messages
- Identify characteristics of various media messages
- Expand vocabulary by finding meanings of unfamiliar words using knowledge of word origins, synonyms, antonyms, homonyms, prefixes, suffixes, and multiple meanings in context
- Read a variety of fiction and nonfiction, including poetry, biographies and historical fiction
- Demonstrate comprehension of text by identifying: author’s purpose, story elements and language choice that support author’s purpose, main idea and supporting details, problem and solution
- Use reading strategies throughout the reading process to monitor comprehension (predicting, visualizing, making connections using prior knowledge, questioning, inferring, summarizing)
- Use text structures (type/font, title, headings, graphics, captions) to make predictions and set a purpose for reading
- Use prior knowledge to make connections with previously read texts, draw conclusions, distinguish between cause and effect, and fact and opinion
- Read fluently with expression and accuracy
- Write cohesively for a variety of purposes (narrative and expository) using a variety of pre-writing strategies
- Write two or more related paragraphs with clear topic sentences, focusing on the main idea with supporting details that elaborate the main idea
- Revise and edit writing including planning with purpose, awareness of audience, and appropriate sequence
- Edit writing for: spelling, capitalization, punctuation (including commas in a series, dates, addresses), grammar (including subject-verb agreement, noun-pronoun agreement, appropriate adjective and adverb usage, singular possessives)
- Demonstrate comprehension of information resources to research a topic by: constructing questions, collecting information from multiple sources (online, print, and media)
- Use technology as a tool to organize, evaluate, and communicate information
- Give credit to sources used in research
- Understand the difference between plagiarism and summarizing in your own words

MATHEMATICS:
- Explain and represent mathematical ideas orally and in writing
- Organize and communicate mathematical thinking.
- Identify, compare, order, and round whole numbers thru millions and decimals through thousandths
- Compare and order fractions and mixed numbers and represent equivalent fractions
- Identify the division statement that represents a fraction
- Estimate and solve single-step and multi-step problems involving addition, subtraction, multiplication, division
- Determine common multiples and factors
- Solve single- and multi-step practical problems involving addition and subtraction with fractions and decimals
- Estimate, measure, identify equivalent measures for weight/mass, length, and liquid volume
• Measurement-Solve practical problems that involve determining perimeter and area
• Determine elapsed time in hours and minutes
• Identify and describe points, lines, line segments, rays, and angles, endpoints and vertices, intersection, parallelism and perpendicularity
• Identify, describe, compare and contrast plane and solid figures according to angles, vertices, edge faces, and sides.
• Classify quadrilaterals as parallelograms, rectangles, squares, rhombi, and/or trapezoids
• Predict likely outcomes and represent probability as a number between 0 and 1
• Represent probability as a practical problem and/or a number between zero and one
• Collect, organize, display, and interpret data from a variety of graphs
• Recognize, create and extend numerical and geometric patterns
• Recognize and demonstrate the meaning of equality

SCIENCE:
• Plan and conduct investigations where measurements are made, hypotheses are formed, data is graphed and analyzed, variables are recognized, and conclusions are drawn
• Investigate characteristics and interaction of moving objects
• Study the characteristics of electricity and types of circuits
• Investigate basic life processes of plants including anatomy, reproduction, and photosynthesis.
• Observe the roles of plants and animals in ecosystems, including energy flow, niches, and the influence of humans
• Investigate and measure weather phenomena such as air pressure, temperature, fronts, clouds, and the meteorological tools used in data gathering and weather prediction
• Investigate the relationships among the Earth, moon, and sun including their movements, relative size, position, and age, the phases of the moon, the seasonal changes
• Investigate important natural resources of Virginia, including the concept of a watershed, plants and animals, mineral and energy resources

SOCIAL STUDIES:
• Continue to use maps, tables, graphs, and charts to study Virginia and the original thirteen colonies
• Study archaeology and the relationship of American Indian cultures in VA to their environment, as well as the current tribes
• Study the settlement and expansion of the regions of Virginia and their political and economic connections to England from 1607 to present
• Recognize the relative importance of Virginia within the context of Colonial America
• Understand the interactive forces leading to the French and Indian War

• Explain the causes and effects of British taxation and the resulting American Revolution, and VA’s role in the Revolution
• Recognize the contributions of colonists to the establishment of the U.S. Constitution and Bill of Rights, and the success of the new national government
• Explain the causes of the Civil War and the role of Virginians, including major battles and the creation of West Virginia
• Trace the social, political, and economic changes in Virginia from Reconstruction (1865)-20th century (1900)
• Trace the history of Virginia in the 20th century, including the study of segregation and the Civil Rights Movement
• Demonstrate an understanding of Virginia government, geography, and economics
• Use primary sources to analyze historical events
• Use technology to enhance study of historical events

PHYSICAL EDUCATION AND HEALTH:
In grade four, students make continuous progress across all fundamental motor patterns. Proficient movement patterns are possible as students combine locomotor and manipulative skills in increasingly complex situations. Students create sequences in educational dances and gymnastics. They apply movement concepts and principles and knowledge of anatomical structures in individual movement performances, and tactical strategies in modified activities. Fitness assessment is appropriate at this grade level, and students interpret the results of their assessments and set personal goals based on the results. Students exhibit appropriate etiquette, integrity, and conflict-resolution skills; and they apply proper rules and procedures.

• The student will refine movement skills and demonstrate the ability to combine them in increasingly complex movement environments/activities.
• The student will identify major structures and begin to apply knowledge of anatomy to explain movement patterns.
• The student will apply knowledge of health-related fitness, gather and analyze data, and set measurable goals to improve fitness levels.
• The student will demonstrate positive interactions with others in cooperative and competitive physical activities.
• The student will explain the nutrition and activity components of energy balance.

Students in grade four learn and apply health skills to the following health areas: disease prevention, nutrition, healthy relationships, and drug-abuse prevention (including alcohol, tobacco, and other harmful substances). Students distinguish fact from fiction and set simple goals for promoting personal health and preventing disease. Students assume personal responsibility for helping promote health at school and in the community.
● Explain how nutrition and other health-enhancing behaviors affect personal health and academic achievement.
● Identify effective verbal and nonverbal communication skills to resist/refuse alcohol, tobacco, inhalants, and other drugs.
● Determine the nutrients needed for proper brain function.
● Describe the benefits of a physically active lifestyle, safe behaviors, healthy food choices, and sleep.
● Describe health concepts and behaviors that prevent illness, disease, and injury, and that promote positive relationships.
● Identify adults who can help manage feelings and emotions resulting from loss and grief.
● Describe how developing a healthy self-concept is an essential life skill.
● Describe the importance of identifying and accessing health resources for personal and community health.
● Analyze resources for personal and community health from health care agencies, printed materials, broadcast media, the Internet, and audiovisual materials.
● Identify strategies and resources to manage feelings that may result from loss and grief.
● Describe the relationship of positive self-concept, meeting academic goals, and participation in co-curricular and extracurricular activities.

FINE ARTS:
● Recognize and identify two dimensional from three dimensional form
● Identify visual from tactile texture
● Use mixed media in a controlled manner

MUSIC:
● Read and clap rhythms from specified written notation
● Distinguish between meter in two, three and four
● Sing songs with counter melodies, descants and obligatos
● Play the soprano recorder
● Sing all solfege syllabes on pitch and using Kodaly hand signs
● Identify introduction, coda and first and second endings.
● Understand and distinguish between major and minor modes
● Recognize and apply the dynamic markings pp, p, mp, mf, f, ff; the tempo markings allegro, andante, moderato and largo; and the accent mark
● Expand knowledge of orchestra instruments

Resources:
Resources concerning the Standards of Learning for Virginia Public Schools and more can be found at the Virginia Department of Education website: http://www.doe.virginia.gov Helpful resources at this site include subject and grade level Standards of Learning, Curriculum Frameworks, and Scope and Sequence documents.
Additional resources are listed below:
Reading
● http://www.ed.gov/parents/read/resources/readingtips