

KEY LEARNINGS: FIFTH GRADE

2009-2011

BIBLE

Fruit of the Spirit: Applying these gifts to real life

- Know that each person has been given unique talents and spiritual gifts by God
- Understand that God always was and will always be a God of love
- Understand that God created humanity with the power of choice
- Know that God's character of love is revealed through His laws and interaction with His people
- Understand that the God of the Old Testament is the same God as the New Testament
- Understand the covenant relationship God initiated with His people and the role of faith, repentance, and forgiveness
- Recognize the importance of showing kindness toward and acceptance of people who are different
- Recognize that as the Holy Spirit works in lives of people, people become more and more like Jesus and will reflect His love and goodness to others
- Understand that God continues to offer the gift of salvation
- Understand the importance of daily commitment to God and relying on His power for a victorious life

FINE ARTS

Art - Consult the *NAD Fine Arts Curriculum Guide* for suggested activities to meet these objectives.

- Select media, techniques and processes; analyze what makes them effective or not effective in communicating ideas; and reflect upon the effectiveness of their choices
- Employ organizational structures and analyze their effectiveness in the communication of ideas
- Use subjects, themes and symbols that demonstrate knowledge of contexts, values and aesthetics that communicate intended meaning in artwork
- Describe and place a variety of art objects in historical and cultural context
- Analyze, describe and demonstrate how factors of time and place influence visual characteristics that give meaning and value to a work of art
- Describe and compare a variety of individual responses to their own artworks and to artworks from various eras and cultures
- Describe ways in which the principles and subject matter of other disciplines taught in the school are interrelated with the visual arts

Music

- Know names of lines and spaces of bass clef
- Identify and write symbols for sharp, flat and natural
- Sight-read a musical phrase
- Use *D.C. al fine*
- Know symbols and meanings for ritardando and accelerando
- Know symbols and meanings for crescendo, decrescendo and diminuendo
- Listen to music of the baroque period
- Learn names of some hymn writers

LANGUAGE ARTS

Extended Reading and Writing

- Read to obtain information
- Use decoding and context to read
- Use the writing process
- Write expository papers
- Edit spelling, grammar, and punctuation
- Recognize and read grade-appropriate sight words
- Write a picture book
- Write for various purposes and audiences
- Write using story elements

Comprehending, Studying, and Evaluating Ideas

- Write paragraphs with main ideas and details
- Retell or take notes on narratives using story plans
- Determine meaning of unfamiliar words and phrases
- Develop two-column notes and charts
- Identify bias in visual, auditory, and literary works
- Discern between good and evil, real and imaginary, fact and opinion
- Use graphic organizers
- Evaluate by opinion-proof notes and persuasive paragraphs
- Analyze author's craft
- Analyze story elements
- Synthesize information from multiple, reliable resources
- Analyze main ideas of print and visual media
- Write summaries
- Develop discriminatory skills

Reference Skills

- Use library references
- Use reference resources

Word Study

- Read, spell, and write words with short and long vowels
- Correctly spell grade-appropriate words
- Read, spell, and write homophones
- Read, spell, and write common contractions
- Read, spell, write, and define easily confused words
- Read, spell, and write compound words

Sentence Skills

- Identify the subject and predicate in a sentence
- Identify and use conjunctions
- Recognize fragments and run-on sentences; combine short, related sentences
- Identify and use grade-appropriate punctuation
- Write sentences, paragraphs, and stories
- Edit for usage
- Identify action verbs
- Identify and use correct verb tense
- Identify and use adjectives
- Identify and use proper nouns
- Identify and use proper adjectives
- Identify and use adverbs
- Capitalize and punctuate abbreviations

MATH**Number and Operations**

- Understand place value through billions
- Be proficient in counting money and making change
- Develop and use number sense for whole numbers, fractions and decimals
- Develop and apply number theory concepts, e.g. multiples, primes and factors in real world and mathematical situations
- Determine pairs of numbers given a relation or rule, and determine the relation or rule of given pairs of numbers
- Understand how basic mathematical operations are related
- Develop, analyze and explain procedures for computation and techniques for estimation
- Select appropriate methods and tools for computing with whole numbers, fractions and decimals from among mental computation, estimation, calculator and paper/pencil

- Round whole numbers to the designated place value
- Identify and generate equivalent forms of fractions, decimals and percents
- Recognize, model and describe multiples, factors, composites and primes
- Determine the greatest common factor (GCF) and least common multiple (LCM) of two numbers
- Convert fractions to the least common denominator (LCD)
- Reduce fractions to simplest form (lowest terms)
- Add and subtract time using renaming

Algebra

- Graph linear equations with one variable
- Use calculators, computers, tables and graphs to develop and interpret patterns
- Understand and use formulas
- Develop skill in solving and writing linear equations using informal and formal methods
- Investigate inequalities and nonlinear equations
- Apply order of operation rules

Geometry

- Learn the relationship between radius and diameter
- Classify angles according to the measure
- Identify and select appropriate units to measure angles (degrees)
- Understand and use linear, square and cubic units
- Count faces, vertices and edges
- Create perspective drawings
- Describe ray, segment, interior and exterior of an angle
- Recognize and create patterns with tessellations

Measurement

- Identify the paths between points on a grid or coordinate plane and compare the lengths of the paths, e.g. shortest path, paths of equal lengths
- Demonstrate and describe the difference between covering the faces (surface area), and filling the interior (volume), of 3-dimensional objects
- Use standard angles (45° , 90° , 120°) to estimate the measure of angles and use a protractor to measure and draw angles
- Convert one metric unit to one customary unit and one customary unit to one metric unit
- Understand that measurement is not exact, e.g. when measured multiple times, measurements may give slightly different numbers
- Understand and explain how differences in units affect precision
- Measure length to the nearest cm and $\frac{1}{8}$ of an inch

Data Analysis and Probability

- Collect and organize data, then determine appropriate method and scale to display data
- Find the mean, median, mode and range of a given set of data and use these measures to describe the set of data
- Use calculators to simplify computations and use computers to assist in generating and analyzing information
- Sample and analyze data, making predictions and conjectures based on samples
- Distinguish between a population and a sample
- Discuss the reasonableness of the data and the results
- List all possible outcomes of an event
- Read, construct and interpret frequency tables
- Make predictions based on experimental and theoretical probabilities

PHYSICAL EDUCATION**Spiritual Emphasis**

- Recognize that God's ideal for quality living includes a health lifestyle
- Incorporate into one's lifestyle the principles that promote health: nutrition, exercise, water, sunlight, temperance, air, rest, trust in God
- Avoid at-risk behaviors
- Apply Christian principles in recreation and sports
- Achieve a balance in work and leisure; balancing physical, mental, social and spiritual activities
- Recognize the interaction of physical, mental and spiritual health with emotional and social well-being

Movement and Motor Skills

- Demonstrate mature form for all basic manipulative, locomotor and non-locomotor skills
- Demonstrate increasing competence in more advanced specialized skills
- Adapt and combine skills to the demands of increasingly complex situations of selected movement forms
- Demonstrate beginning strategies for net and invasion games
- Apply previously learned knowledge, or use instruction to improve performance
- Apply information from a variety of internal and external sources to improve performance
- Identify and apply principles of practice and conditioning that enhance performance
- Recognize sport specific movement patterns that can be applied to games, e.g. similarity of the ready position in striking movement forms
- Understand terms that describe basic movement
- Use basic offensive and defensive strategies in non-complex settings

Lifestyle and Fitness

- Identify opportunities in the school and community for regular participation in physical activity
- Participate daily in some form of health-enhancing physical activity
- Discover personal interests and capabilities in regard to one's exercise behavior
- Identify the critical aspects of a healthy lifestyle
- Participate in moderate to vigorous physical activity in a variety of settings
- Monitor intensity of exercise
- Understand the reason for proper cool-down and warm-up techniques
- Begin to develop a strategy for the improvement of selected fitness components
- Work somewhat independently with minimal supervision in pursuit of personal fitness goals
- Meet the health-related fitness standards as defined by a standard physical fitness test, e.g. AAHPERD Physical Best, Fitnessgram, President's Challenge
- Recognize physical activity as a positive opportunity for social and group interaction
- Experience enjoyment from participation in physical activities
- Use physical activity to express feelings and relieve stress
- Seek personally challenging experiences in physically active opportunities

Sportsmanship and Appropriate Behaviors

- Participate in establishing rules, procedures and etiquette that are safe and effective for specific activity situations
- Work cooperatively and productively in a group to accomplish a set goal in cooperative and competitive activities
- Make conscious Christ-like decisions about applying rules, procedures and etiquette
- Utilize time effectively to complete assigned tasks
- Acknowledge differences in the behaviors of people of different gender, culture, ethnicity, development and disability by learning more about both similarities and differences
- Cooperate with disabled peers and those of different gender, race, ethnicity and religion
- Work cooperatively with both more and less skilled peers

SCIENCE**Life:** Living Things

- Describe, explain and compare the structure and function of cells
- Identify the characteristics of living things and non-living things
- Use the standard classification system to group animals based on their characteristics
- Identify features of fish that distinguish them from other classes of animals
- Identify the main characteristics of birds, reptiles, amphibians, and mammals and how these characteristics affect the behavior and function of the animal
- Compare the different behaviors of animals e.g., innate, learned, cyclic, social

Health: Personal Mental Health, Interpersonal Human Health, Human Sexuality

- Describe how personality, relationships and self-concept affect mental and emotional health
- Define stress including its positive and negative aspects and how stress relates to decision making
- Identify factors that influence how friends are chosen and the impact of friends on peer pressure
- Know ways to seek assistance if worried, abused or threatened
- Explain human reproduction and development
- Identify the physical, emotional, intellectual and social changes that occur at puberty
- Describe God's plan for human sexual behavior

Physical: Heat, Energy Waves, Sound, Light

- Describe the relationship between heat and the kinetic theory of matter
- Identify, describe, and compare different types of wave energy including electromagnetic and mechanical
- Describe the organization of the electromagnetic spectrum and the uses/applications of each type of electromagnetic wave
- Compare electromagnetic (heat, light, radio) waves and mechanical (sound, water) waves
- Explore characteristics of heat, sound and light (including color)
- Compare the function of simple optical devices

Earth: Meteorology, Oceanography

- Define meteorology, and the purpose of various weather instruments
- Describe how clouds are formed
- Identify characteristics of different storms
- Distinguish between climate and weather and identify factors that affect climate
- Describe Earth's atmospheric layers and the "greenhouse" effect
- Explain air pressure and local/global winds, how they are measured and their effects on weather
- Explain the water cycle and its relationship to weather and climatic patterns
- Describe the physical structures of and ecosystems present in the ocean
- Explain currents, tides, ocean waves and ocean water composition
- Identify resources available from the sea and how humans affect the ocean ecology

Scientific Inquiry: May be included in each unit of study

- Make observations
- Ask questions or form hypotheses based on these observations
- Plan a simple investigation
- Collect data from the investigation
- Use the data collected from the investigation to explain the results
- Safely use and store tools and equipment

Service/Career Options

- Explore ways to use Physical, Life, Health, and/or Earth Science to serve the community
- Identify careers in areas of science

SOCIAL STUDIES**History**

Fifth grade will study the development of the United States as a nation through the ravages of the Civil War.

The Arrival of Europeans to 1610:

- Trace the routes of major European explorers
- Identify the founders and study how the colonies grew

Colonization and Settlements (1607 to 1763):

- Explain reasons for the movement of people from Europe to the Americas
- Describe the impact of exploration and settlement on native Indians
- Explain the causes, conditions, and consequences, of the French and Indian War
- Investigate biblical prophecies about the founding of the United States

The American Revolution (1763 to 1783):

- Identify the causes of the American Revolution
- Evaluate contributions of women during the American Revolution

Making the United States Constitution and Establishing the Federal Republic (1783 to 1800's):

- Discuss the United States Constitution
- Discuss the Bill of Rights

Westward Expansion and the Civil War (1800 to 1865):

- Describe the significance of the Louisiana Purchase, and the expedition of Lewis and Clark
- Explain concept of Manifest Destiny
- Describe the issues associated with the westward expansion of slavery
- Understand the War of 1812

The Civil War Leading to the Reconstruction Period (1850 to 1877):

- Analyze the causes of events leading to the Civil War
- Discuss Ellen White's vision that shows God's involvement in the outcome of the Civil War

Civics and Government

Foundations of Government:

- Explain the Magna Carta as the foundation of the development of the United States Constitution
- Summarize the principles and purposes of self government in the Preamble to the Constitution of the United States
- Compare the Constitution to the Ten Commandments

Functions of Government:

- Describe various kinds of elections and how they are conducted
- Describe the three branches of the United States government and their functions
- Examine how citizens voice opinions, monitor government and bring about change

Geography

Maps, Globes, and Graphics:

- Demonstrate the understanding of latitude and longitude
- Demonstrate how maps are used to portray specific information
- Learn the continents and their locations
- Recognize the four hemispheres of the Earth
- Trace the boundaries between the North and the South during the Civil War

Places:

- Name and locate major regions, rivers, mountain ranges, drainages, and the continental divides of North America
- Understand and explain voluntary and involuntary reasons for human migration.

Climate:

- Know how the Earth's position, relative to the sun, affects conditions on earth

Natural Resources and Environment:

- Describe the major ways land was used by Native Indians and colonists in each region and explain how land use has changed and continues to change
- Describe the abuse of natural resources in the past and how their use has changed to preserve those resources over time

- Give examples of how physical natural features influenced historical events and movements

Economics

Historic Issues:

- Understand how economics issues and interests brought about the Revolution
- Describe purpose, challenges, and economic incentives associated with the westward expansion

Commerce:

- Describe how regions were linked economically and how trade affects the way people have their needs and wants met

Individuals, Society, and Culture

Individual:

- Understand the importance of developing a personal relationship with Christ
- Identify the qualities that make individuals unique and their place in God's overall plan

Society:

- Identify customs and traditions of the various cultural groups that have contributed to the American way of life
- Discuss the impact of prejudice on society

Culture:

- Recognize the impact of immigration on cultural diversity

Religion:

- Understand the importance of religious freedom

Mission/Outreach:

- Recognize the church's efforts to alleviate social problems

TECHNOLOGY

- Demonstrate proper use and care of computers and input/output devices
- Learn to troubleshoot basic malfunctions
- Practice keyboarding, using correct hand position and posture
- Use word processing, editing and file management skills
- Begin using presentation software
- Use a variety of electronic resources to enhance and access information
- Know proper technology terms
- Understand consumer issues regarding technology in every aspect of our lives
- Investigate technology-related occupations
- Use courtesy while sharing computer time
- Become aware of legal issues when using software
- Identify computer abuse including use of Internet