

## KEY LEARNINGS: FOURTH GRADE

2009-2011

### BIBLE

**Following in His Way:** God the Creator, Sustainer and Friend

- Understand that the Bible contains a powerful message for humanity
- Know the structure and divisions of the Bible
- Understand that the "Fruit of the Spirit" portrays God's character
- Understand and accept the free gift of salvation
- Know the importance of developing and exercising faith in Jesus as the Messiah and Savior
- Realize the importance of preparing for a mission and service for God
- Identify specific spiritual gifts given to important New Testament characters
- Understand that God has a plan for everyone's life and will lead people to develop a Christ-like character
- Understand that expressions of adoration are an important part of worship
- Understand the importance of examining and accepting God's unconditional love and forgiveness
- Know that worship and obedience are a natural response to God's gift of salvation

### FINE ARTS

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

- Use different media, techniques and processes to communicate ideas, experiences and stories
- Know the differences among visual characteristics and purposes of art in order to convey ideas
- Select and use subject matter, symbols and ideas to communicate meaning
- Know that the visual arts have both history and specific relationships to various cultures
- Identify specific works of art as belonging to particular cultures, times and places
- Describe how people's experiences influence the development of specific artworks
- Identify connections between the visual arts and other disciplines in the curriculum

### Music

- Read meter signatures (2/4, 3/4, 4/4)
- Identify staff, treble clef and measure
- Know names of lines and spaces of treble clef
- Distinguish between secular and sacred music
- Recognize rondo form (ABACA pattern)
- Recognize terms: ritardando, accelerando, allegro and andante
- Recognize how legato and staccato affect the way music is performed
- Experience nationalistic and patriotic music
- Recognize an overture
- Identify parts of the hymnal page

### LANGUAGE ARTS

#### Extended Reading and Writing

- Recognize and read grade appropriate sight words
- Read silently for pleasure
- Use the writing process
- Write poetry
- Write descriptions and personal experiences in sequence
- Write to express opinion

#### Comprehending, Studying, and Evaluating Ideas

- Sequence events through timelines
- Evaluate by opinion-proof notes and persuasive paragraphs
- Order events sequentially
- Analyze and compare characters
- Scan text to discover content
- Analyze main ideas using concept maps
- Develop main idea outlines using number notes with topics and details
- Develop two-column notes and charts

- Practice test-taking strategies
- Write summaries
- Analyze, compare, and contrast characters, plot, theme, setting, and issues through maps, notes, charts, diagrams
- Write paragraphs with main ideas and details
- Ask questions for discussion about content of literature
- Write questions for discussion about content of literature and visual media
- Retell or take notes on narratives using story plans

**Reference Skills**

- Use library references

**Word Study**

- Decode long i words
- Use new vocabulary
- Read, write, and spell plurals
- Identify and use adverbs

**Sentence Skills**

- Recognize fragments and run-on sentences
- Identify and use nouns
- Underline or italicize for titles
- Use commas after introductory words
- Write clear, concise, correct, varied and complete sentences
- Use new vocabulary in concept maps, sentences, and discussion
- Recognize and edit correct verb tenses
- Identify and use adverbs
- Edit for usage
- Identify and use pronouns
- Identify and use prepositions
- Recognize and use prepositional phrases

**MATH****Number and Operations**

- Understand place value through millions
- Understand concept and representation of numbers between zero - one, i.e. fractions - decimals
- Recognize representations for equivalent numbers
- Read, write and compare decimals to the hundredths
- Know equivalents in counting money, e.g. 5 nickels equal 1 quarter
- Know how to count up to make change
- Understand how multiplication and division relate to each other to solve problems
- Interpret the meaning of a remainder in a division problem
- Memorize multiplication and division facts through 12
- Multiply a 3- and 4-digit number by a 1-digit number
- Divide using 1-digit divisor and 1- 2- or 3-digit dividend
- Multiply two 2-digit numbers
- Understand simple equivalent fractions
- Convert improper fractions to mixed numbers and vice versa
- Add and subtract fractions and mixed numbers with common denominators
- Estimate solutions involving whole number, fraction and decimal computations
- Understand basic concepts of least common multiple (LCM) and greatest common factor (GCF)
- Reduce simple fractions to lowest terms
- Explore numbers less than zero by extending the number line and through familiar applications

**Algebra**

- Construct a table of values to solve problems in a mathematical relationship
- Understand how a change in one variable affects the value of another variable

- Use distributive properties to simplify and perform computations
- Make and justify predictions using numerical and non-numerical patterns

**Geometry**

- Describe points, lines and planes
- Use columns and rows to determine position on a grid
- Use coordinate systems to specify locations
- Identify line symmetry in 3-dimensional shapes
- Create models of 3-dimensional objects
- Multiply to find area of rectangles
- Make and test conjectures about geometric properties and relationships, then develop logical arguments to justify conclusions
- Compare similarities and differences of quadrilaterals

**Measurement**

- Measure length to the nearest  $\frac{1}{4}$  inch
- Use measures less than one unit
- Solve multi-step problems involving measurement
- Estimate and measure the perimeter of irregular shapes
- Compare the number of units to the size of units, e.g. number of feet compared to number of yards in a given length, estimating/determining cups in a 2-liter container
- Draw a simple time line
- Determine elapsed time by the hour and half-hour
- Understand time zones and read timetables
- Read a Celsius thermometer knowing the significance of 0 and 100 degrees; and read a Fahrenheit thermometer knowing the significance of 32 and 212 degrees
- Know equivalent measures for simple metric and customary units of length, capacity, weight/mass and time e.g. inches to feet, meters to kilometers
- Convert simple metric and customary units of length, capacity, weight/mass, and time, e.g. inches to feet, kilograms to grams, quarts to gallons

**Data Analysis and Probability**

- Collect and organize data into tables and graphs using different scales
- Read and interpret data presented in circle graphs
- Conduct simple probability experiments
- Interpret and construct Venn diagrams
- Evaluate the process of data collection

**PHYSICAL EDUCATION****Spiritual Emphasis**

- Recognize that God's ideal for quality living includes a healthy 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 in all locomotor patterns and selected manipulative and non-locomotor skills
- Adapt a skill to the demands of a dynamic, unpredictable environment
- Acquire beginning skills of a few specialized movement forms
- Combine movement skills in applied settings
- Apply critical elements to improve personal performance in fundamental and selected specialized motor skills

- Use critical elements of fundamental and specialized movement skills to provide feedback to others
- Recognize and apply concepts that impact the quality of increasingly complex movement performance

#### **Lifestyle and Fitness**

- Select and participate regularly in physical activities for the purpose of improving skill and health
- Identify the benefits derived from regular physical activity
- Identify several moderate to vigorous physical activities that provide personal pleasure
- Identify several activities related to each component of physical fitness
- Associate results of fitness testing to personal health status and ability to perform various activities
- Meet the health-related fitness standards as defined by a fitness testing program
- Experience enjoyment while participating in physical activity
- Enjoy practicing activities to increase skill competence
- Interact with friends while participating in group activities
- Use physical activity as a means of self-expression

#### **Sportsmanship and Appropriate Behaviors**

- Follow, with few reminders, activity-specific rules, procedures and etiquette
- Utilize safety principles in activity situations
- Work cooperatively and productively with a partner or small group
- Work independently and on-task for a specified period of time
- Explore cultural/ethnic self-awareness through participation in physical activity
- Recognize the attributes that individuals with difference can bring to group activities
- Experience differences and similarities among people of different backgrounds by participating in activities of national, cultural and ethnic origins

### **SCIENCE**

#### **Life: Plants**

- Group and classify plants based on common characteristics
- Identify conditions necessary for plant survival and growth
- Describe the steps of photosynthesis and sequence them
- Describe the life cycle of a plant including the process of pollination
- Describe basic plant structures and systems identifying their functions e.g. seed, root, stem, leaf
- Understand ecosystems and communities and how plants adapt to survive

#### **Health: Consumer Health, Community Health, Disease**

- Explain how personal habits affect health
- Develop an awareness of physical and mentally challenged persons
- Identify sources of diseases and how they may be prevented
- Identify important community health care workers and resources

#### **Physical: Chemistry Matter, Atomic Structure, Energy/Work**

- Understand matter classification by properties
- Identify and compare physical and chemical change
- Explain the structure of atoms and how they are the building blocks of matter
- Identify chemistry mixtures and compounds
- Define potential and kinetic energy
- Define and understand simple and compound machines

#### **Earth: Creation/Evolution, Geology, Ecology**

- Explain why the story of the flood is important to creation
- Define fossil
- Identify fossil fuels formed at the time of the flood
- Identify examples of common dinosaurs
- Understand the importance of fossils in interpreting Earth's history
- Define habitat, biomes, and environment

- Describe a food chain
- Identify and describe characteristics of animal communities
- Distinguish between renewable and nonrenewable resources
- Identify resources found in various environments
- Identify Earth's basic natural resources found and the wise use of these resources

**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 and 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

Chronological Thinking:

- Understand time measurements
- Identify examples of cause and effect relationships

Historical Knowledge:

- Study Native Peoples of each region
- Identify early explorers
- Know the impact of early settlers
- Explore the impact of immigration
- Identify notable Seventh-day Adventists in the history of each region

### Civics and Government

Foundations of Government:

- Explain how the first settlers governed their communities
- Show how the Ten Commandments relate to governmental laws

Functions of Government:

- Describe major rights and freedoms of citizens

Roles of Citizens:

- Explain the rights and responsibilities of voting
- Provide examples of civic virtues in a democracy
- Explain the meaning of national and patriotic symbols

### Geography

Maps, Globes, and Graphics:

- Demonstrate how to use a map scale and map symbols
- Use maps, graphs, and charts to identify geographic information
- Locate and memorize the states/parishes/provinces and their capitals

Places:

- Show how latitude is related to climate
- Learn how land forms affect regions
- Locate time zones and describe their purpose

Climate:

- Explain how latitude, land forms, and ocean currents affect climate
- Explain the difference between climate and weather
- Tell how climate and natural features affect growing seasons

Natural Resources and Environment:

- Explain why different natural resources, plants, and animals are found in various regions
- Discuss ecological concerns
- Tell how geographic features and the environment affect migration patterns

**Economics**

Work and Workers:

- Discuss skills that will enhance employability

Commerce:

- List the functions of money and compare and contrast things that have been used as money in the state/parish/province
- Tell how natural resources from your region are used and how they contribute to the economy of your region
- Explain that prices change as a result of supply and demand

Stewardship:

- Discuss the value of tithing and giving offerings
- Identify different ways people save their income and explain advantages and disadvantages of each

**Individuals, Society, and Culture**

Individual:

- Understand the importance of developing a personal relationship with Christ
- Recognize that personal actions and choices affect others
- Identify ways that social groups influence individual behavior

Society:

- Recognize individual responsibilities in caring for one another
- Respect the right of others to make choices

Culture:

- Identify challenges of the different cultural groups throughout the history of the state/parish/province
- Explore the cultures of the Native Peoples

Religion:

- Understand the influence of religious heritage on culture

Mission/Outreach:

- Develop an understanding of current world missions and participate in community service or mission projects

**TECHNOLOGY**

- Demonstrate proper use and care of computers and other audio-visual equipment
- Practice using the keyboard
- Become familiar with proper computer terms
- Use computers to express ideas with drawing, multi-media and word processing software
- Learn file management
- Learn about technology related occupations and use in everyday life
- Use appropriate input/output devices
- Begin troubleshooting for basic malfunctions
- Become aware of copyright issues
- Practice courtesy and respecting of computer time