

## KEY LEARNINGS: FOURTH GRADE

2003-2005

### 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

#### Viewing

- View visual media for a specific learning purpose
- Ask questions for clarification of visual media
- Recognize how impressions of visual media can influence understanding

#### Listening

- Listen to and show respect for ideas of others
- Identify false or misleading information
- Connect learning to all subjects from what is heard
- Identify persuasive messages

#### Reading

- Decode unfamiliar words
- Use punctuation clues to help read aloud
- Understand author's purpose
- Read aloud, adjust speed of reading to suit purpose and difficulty of material
- Identify figurative language
- Use word origins and derivations to understand word meanings

- Use the thesaurus to learn word meanings

**Speaking**

- Use notes and memory aids to assist in speaking effectively
- Convey clearly focused main idea and details, making connection and transition among ideas and elements

**Visually Representing**

- Generate visual media to communicate topic, context, and purpose
- Construct visual media to demonstrate specific information

**Writing**

- Write legibly in cursive with proper size and form
- Practice the writing process
- Use characteristics of good writing
- Select an organizational structure to fit purpose
- Identify and use declarative, interrogative, imperative, and exclamatory sentences
- Write business letters, invitations, and thank-you notes

**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****Physical:** Atomic Structure/Matter

- Explain the structure of atoms and how they are the building blocks of matter
- Identify substances as they exist in different states of matter and how they may be changed
- Distinguish between chemical and physical changes in matter

**Life:** Plants (Classification, Growth, Photosynthesis, Reproduction, Structure/Function)

- Group and classify plants based on a variety of characteristics e.g. seed, non-seed
- 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 and identify their functions
- Understand ecosystems and communities and how plants adapt to survive

**Earth:** Environmental Use (Conservation/Ecology, Pollution)

- Identify properties, uses and misuses of Earth materials
- Identify renewable and nonrenewable resources
- Understand that God created natural resources for human use
- Explain how human activity affects the balance of nature
- Recognize that Earth materials are limited and explore strategies for addressing this problem

**Health:** Disease Prevention, First Aid, Community Health

- Identify sources of diseases and how they may be prevented
- Identify the appropriate first aid procedures to follow in case of emergency
- Identify important community health care resources

**Scientific Inquiry**

- 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**

**OVERRIDING STATEMENTS:** Civics, geography and economics should be studied within the context of the history for each grade.

**INTEGRATION OF FAITH & LEARNING:** Although individual religious concepts are not explicitly stated, the idea of God's leading in the affairs of history and human relationships should be embedded in all of the social studies lessons.

**History:** Earth's Regions and Its People (Time, Technology, Native People, Early Settlers, National Leaders, Transportation, Holidays)

- Recognize the importance of God's global mission and the work of the Adventist church
- Understand time measurements: dates in terms of centuries, BC-AD, time lines
- Understand current events and the history, traditions and holidays of one's state, provinces and other regions of the world
- Know the influence of early settlers and native people in one's region and state
- Recognize the impact of cultural influences in different regions of the world

**Civics:** Ideas about Civic Life, Politics and Government

- Know the difference between power and authority
- Know the characteristics of an effective law and understand the consequences of the absence of government and laws
- Understand the role of diversity and the importance of shared values in the United States
- Understand the components of state government and the constitution
- Know the importance of Christian citizenship
- Develop responsibility through good decision making
- Understand the roles of volunteerism and organized groups in American social and political life

**Geography:** Geographic Features and Patterns of the Environment

- Know the basic elements of maps, globes, graphs
- Use a globe to clarify knowledge of the earth
- Use charts and maps to show the physical and human characteristics of one's state
- Know characteristics of other regions of the United States
- Know how the characteristics of places are shaped by physical and human processes
- Understand how climate and weather help to shape features on the earth's surface

**Economics**

- Understand responsibilities of Christian stewardship in a global economy
- Know which goods and services are produced, delivered and shared in various regions; know why people produce them
- Know how the production of goods and services affects the environment
- Understand that limited resources make economic choices necessary
- Learn how technology impacts the world through inventors/inventions

#### **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