

## BIBLE

### Fifth Grade

**Fruit of the Spirit:** Understand that God's people will demonstrate love, joy, peace, patience, kindness, goodness, faithfulness, gentleness, and self-control

- Understand how Old Testament, New Testament, historical, and contemporary individuals have demonstrated the "Fruit of the Spirit" in their personal lives
- Know that God's character of love is revealed by the actions of His people
- Recognize God's faithfulness and His mercy toward His children
- Understand how to develop peace in the school, home, community, and country
- Understand how moderation in diet, rest, and exercise affects an individual's relationship with God
- Recognize that the Christian life can be an abundantly, joyful life
- Know that the most important thing a person can do is to develop relationships—foremost with God, but also with family, friends, and acquaintances
- Understand the importance of daily commitment to God through prayer and Bible study

## FINE ARTS

### Art

- 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, place a variety of art objects in historical/cultural context
- Analyze, describe, demonstrate how factors of time/place influence visual characteristics to give meaning/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, accelerando, crescendo, decrescendo, and diminuendo
- Listen to music of the baroque period
- Learn names of some hymn writers

## LANGUAGE ARTS

### Viewing

- Interpret impressions from visual media that influence understanding
- Understand similarities and differences among a variety of media
- Determine correct word meaning from visual context using electronic devices

### Listening

- Interpret a speaker's topic, purpose, and perspective
- Use listening skills in group settings
- Take brief notes to identify main points and key information
- Draw inferences and reach conclusions

### Reading

- Read independently, selecting appropriate reading strategies
- Use dictionary, glossary, thesaurus, encyclopedia, card catalog, and electronic devices
- Use abstract vocabulary to extend reading vocabulary
- Use skim for overview and scan for specific information to improve comprehension

- Use compare and contrast to improve comprehension

### Speaking

- Use oral language skills in a variety of settings
- Participate in group discussions, refine and use cooperative group processes
- Identify persuasive messages

### Visually Representing

- Develop visual media to model responsible decision-making skills
- Demonstrate how visual media techniques establish mood
- Develop visual media to show similarities and differences

### Writing

- Practice the writing process
- Use characteristics of good writing
- Use figurative language to describe characters

## MATH

### Number and Operations

- Understand place value through billions
- Be proficient in counting money and making change
- Develop, use number sense for whole numbers, fractions, 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/generate equivalent forms of fractions, decimals, percents
- Recognize, model/describe multiples, factors, composites, primes
- Determine the GCF and LCM of two numbers
- Convert fractions to the 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
- 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/theoretical probabilities

## 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 for all basic manipulative, locomotor and non-locomotor skills
- Demonstrate increasing competence in more advanced 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 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 applied to games
- Understand terms that describe basic movement
- Use basic offensive/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/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

#### **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
- Cooperate with disabled peers and those of different gender, race, ethnicity and religion
- Work cooperatively with both more and less skilled peers

#### **SCIENCE**

**Physical:** Energy Waves: Electromagnetic Spectrum, Heat, Light, Mirrors/Lenses, Sound, Waves

- Identify, describe and compare different types of wave energy
- Describe the organization of the electromagnetic spectrum and the uses/applications of each type of electromagnetic wave
- Compare electromagnetic waves and mechanical waves
- Explore characteristics of heat, light, and sound
- Compare and contrast types of mirrors and lenses
- Define a wave and describe characteristics and features of waves

**Life:** Cells, Classification/Behavior, Fish

- Describe, explain and compare the structure and function of cells
- Identify the characteristics of 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

**Earth:** Oceanography, Meteorology: Air Pressure, Climate, Earth's Atmosphere, Water Cycle, Etc.

- Describe physical structures and ecosystems present in the ocean
- Study currents, tides and waves
- Explain air pressure and local/global winds, how they are measured and their effects on weather
- Distinguish between climate and weather and identify factors that affect climate
- Describe Earth's atmospheric layers and the "greenhouse" effect
- Explain water cycle and relationship to weather/climatic patterns

**Health:** Reproductive System, Mental/Emotional Health

- 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
- Know ways to seek assistance if worried, abused or threatened
- Recognize how mood changes and strong feelings affect thoughts and behavior, and how they can be managed successfully
- Describe how personality, relationships and self-concept affect mental and emotional health

#### **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/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**

**American History:** Native People – 1860, Exploration/Colonization, Pre-Independence Movement, American Revolution, Territorial Expansion – 1801-1861, Westward Expansion, Current Events

- Understand God's ultimate control /protection over human affairs
- Describe the relationships between key people/groups, events and cultures in United States History
- Know causes and effects of key influences/events and be able to place them on a time line
- Understand and interpret key events and issues in United States history around commonality and diversity, continuity and change, conflict and cooperation, individualism and interdependence, interaction within different environments
- Interpret major events, issues, developments involved in making a new nation: Land/people before Columbus, Age of Exploration, Settling the Colonies, War of Independence, Westward Expansion
- Understand the role/work of the Adventist Church in North America
- Civics:** Ideas about Civic Life, Politics and Government
- Understand how government works and how participation in government affects citizen life e.g. check and balances, etc.
- Understand the constitution of the U S and how it affects one's life
- Know how the constitution protects the rights of individuals
- Know the importance of Christian citizenship and cultural diversity
- Understand socially acceptable ways of participation in activities to achieve group goals

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

- Prepare, examine, interpret charts/maps that show key geographic information such as population, climate, natural resources, etc
- Locate and identify the continents of the world, the fifty states, major cities of the U S, major physical features of North America
- Identify patterns of migrations and cultural interactions in the U S
- Understand the effects of weather/climate on migration patterns
- Recognize that limited resources are used to meet basic needs and unlimited wants
- Understand how physical and human activity has impacted changes in physical environment

#### **Economics**

- Understand responsibilities of Christian stewardship in a global economy
- Understand that all economic choices have costs and benefits
- Understand the differences between needs and wants and their relationship to economic tradeoffs
- Understand how supply and demand and price increase and decrease influence consumers and the economy
- Identify economic systems and terms

#### **TECHNOLOGY**

- Demonstrate proper use/care of computers, input/output devices
- Learn to troubleshoot for basic malfunctions
- Practice keyboarding, using correct hand position and posture
- Use word processing, editing and file management skills
- Begin using presentation software
- Use electronic resources to enhance and access information
- Know proper technology terms
- Understand consumer issues regarding technology
- 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

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## SEVENTH-DAY ADVENTIST

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## KEY LEARNINGS Fifth Grade