

## Fifth Grade 2007-2008

### BIBLE

**Exploring God:** Through the Stories of the Old Testament

- Understand that God continues to offer the gift of salvation despite humanity's rejection of Him
- Know that God's character of love is revealed through His laws and interaction with His people
- Understand that God created humanity with the power of choice
- Understand the covenant relationship God initiated with His people and the role of faith, repentance and forgiveness
- Understand the importance of daily commitment to God and relying on His power for a victorious life
- Understand that God has always had a remnant of people that have remained a faithful witness for Him
- Know that each person has been given unique talents and spiritual gifts by God
- Understand the value of prayer, praise and reverence in communicating with God
- Identify the sanctuary as a symbol of God's love, acceptance and restoration through the Gospel

### 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 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

#### 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 1/4 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 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 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 (Native People, Exploration/Colonization, Pre-Independence Movement, (Native People, Exploration/Colonization, Pre-Independence 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



## Killeen Adventist Junior Academy

*A Christian School operated by the Seventh-Day Adventist Church*

## KEY LEARNINGS Fifth Grade

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