

## Eighth Grade 2007-2008

### BIBLE

**Explore Origins of the Bible:** Through the Trinity, Personal Relationship with Jesus and Practical Christianity

- Explain the role of inspiration in the formation of the Bible as it was written and preserved over thousands of years
- Describe the concept of the Trinity and identify the characteristic of each member
- Understand the importance of faith, commitment and a dynamic relationship with Jesus
- Know the fundamental Seventh-day Adventist beliefs
- Explain the importance of developing relationships with others based on Christian values
- Know how to apply Christian principles to your daily life

### 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 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

- Identify irregular meter patterns (5/4, 7/4)
- Learn all major key signatures
- Sing a more complex two-part song
- Recognize modulation
- Recognize symphonic form
- Describe how a computer can enhance music
- Listen to music of the Renaissance period
- Learn how to use the various indexes in the SDA hymnal

### LANGUAGE ARTS

#### Viewing

- Locate and interpret examples of literary forms from visual media
- Define aspects of media production and distribution
- Determine the cause and effect of detailed answers to extend the understanding of visual media
- Use figurative language from visual media and answer specific questions to demonstrate understanding

#### Listening

- Analyze presentations by purpose
- Analyze propaganda and argumentation

#### Reading

- Develop study skills
- Use specific strategies to understand confusing parts of text; e.g. predict, clarify, question, and summarize
- Read for comprehension and application

#### Speaking

- Analyze the impact of media on consumers
- Participate in group discussions; refine and use cooperative group processes

#### Visually Representing

- Create visual media to support a presentation

- Model visual media techniques to show the impact on a particular audience

### Writing

- Practice the writing process
- Begin using characteristics of good writing
- Continue enhancing the writing modes
- Narrow the topic to achieve an appropriate focus
- State main idea clearly in a cohesive one sentence thesis
- Write documents related to career development

### MATH

#### Number and Operations

- Use appropriate significant digits in calculations
- Extend understanding of number operations to irrational numbers
- Know the definition of real numbers, set notation and set operations

#### Algebra

- Add and subtract matrices
- Recognize slope and intercept relationships
- Use information to determine whether situations are functions
- Recognize minimum and maximum values
- Understand the properties of arithmetic and geometric sequences
- Develop an initial conceptual understanding of different uses of variables
- Identify functions as linear or nonlinear and contrast their properties from tables, graphs or equations

#### Geometry

- Find the surface area of various geometric shapes, e.g. pyramids and cones
- Find the volume of spheres using formula
- Define objects by geometric properties
- Recognize sine, cosine and tangent relationships with respect to the right triangle

#### Measurement

- Draw picture to assist in solving measurement problems
- Find the size of interior and exterior angles of convex polygons using formula and protractor
- Use appropriate significant digits in calculations
- Convert temperature between Fahrenheit and Celsius

#### Data Analysis and Probability

- Determine the number of combinations from a given set
- Make a box and whisker plot

### 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 competence in modified versions of a variety of movement forms
- Understand and apply more advanced movement and game strategies
- Identify the techniques of intermediate and advanced sport specific skills
- Identify the steps needed to achieve a high performance level in individual, dual and team sports
- Learn, apply and share advanced sport skill knowledge

#### Lifestyle and Fitness

- Establish personal physical activity goals
  - Participate regularly in health-enhancing physical activities in and out of the physical education class
  - Explore a variety of new physical activities for personal interest in and out of the physical education class
  - Describe the relationships between a healthy lifestyle and "feeling good"
  - Participate in a variety of health-related fitness activities in both school and non-school settings
  - Assess physiological indicators of exercise during and after physical activity
  - Learn and apply basic principles of training to improve physical fitness
  - Begin to develop personal fitness goals independently
  - Meet the health-related fitness standards as defined by available fitness tests, e.g. AAPHERD Physical Best, Fitnessgram, President's Challenge
  - Enjoy participation in physical activity
  - Recognize the social benefits of participation in physical activity
  - Try new and challenging activities
  - Recognize physical activity as a vehicle for self-expression
- #### Sportsmanship and Appropriate Behaviors
- Apply God's help in resisting the influence of peer pressure
  - Solve problems by analyzing causes and potential solutions
  - Analyze potential consequences when confronted with true competition
  - Work cooperatively with a group to achieve group goals in competitive as well as cooperative settings
  - Recognize the role of sport, games and recreation
  - Identify behaviors that are supportive and inclusive as well as behaviors that are exclusionary in physical activity settings
  - Willingly join others of diverse cultures, religions, ethnicity, physical abilities and races during physical activity

### SCIENCE

#### Physical: Chemistry

- Explain the structure of matter and how different forms can be combined to create new substances
- Explain conservation of matter
- Describe how elements are organized on the periodic table
- Compare the properties of acids and bases
- Identify and compare physical and chemical change
- Identify methods used to separate mixtures into their component parts
- Life:** Ecology: Natural Resources; Plant Processes
- Explain how use of natural resources affects quality of life and the health of ecosystems
- Recognize that Earth's materials are limited and explore strategies for addressing this problem
- Describe how water, carbon dioxide, oxygen, and nitrogen are recycled through the environment
- Describe the life processes of a plant including photosynthesis and reproduction

#### Earth: Creation/Evolution

- Distinguish between the basic ideas of and evidence for naturalistic evolution and special creation

#### Health: Health Risks, Community Health

- Describe personal and community health care practices that result in prevention, detection and treatment of communicable diseases
  - Know how to locate and use community health resources that provide valid health information
  - Identify community health organizations and agencies such as The American Cancer Society and the advocacy services they provide
- #### 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**

**United States History:** 1861 – Present (Civil War and Reconstruction, Industrial Revolution, Social and Economic Reform, Global Conflicts, United States as World Power, Depression, Modern America, Current Events; United States Government – Constitution)

- Understand God's ultimate control and protection over human affairs
- Understand the basic precepts of the Constitution and the Bill of Rights
- Describe the relationships between key people/groups, events and cultures in United States history
- Explain the causes and effects of major events in American history
- Know causes and effects of key influences/events and be able to place them on a time line
- Interpret events using time lines and narratives
- Use primary and secondary documents and artifacts to interpret historical events
- Understand the daily life and social history of people who lived in early United States history
- Recognize how forces from different spheres of life can cause or shape events
- Understand the role and work of the Adventist church in North America

**Civics**

- Understand the roles of the Christian citizen in government
- Understand the checks and balance function of the three branches of government
- Trace the development of the American political system and government based on the United States constitution and the Bill of Rights
- Identify citizen rights and how the constitution protects those rights
- Understand the purposes of government as stated in the constitution
- Explain the role of laws in the United States and the process through which they are made, applied and enforced
- Identify how actions of the United States government affect its own citizens as well as citizens of other countries

**Geography**

- Understand the nature, distribution and migration of human population on the earth's surface
- Understand how human actions modify the environment
- Understand the patterns of human settlement and their causes
- Identify the geographic role of the United States in international relationships
- Identify geographic regions and major places of the United State

**Economics**

- Identify the principles of Christian stewardship
- Understand the meaning of Gross National Product
- Understand the role of the United States and free enterprise in a global economy
- Understand the concept of prices and the interaction of supply and demand in a market economy
- Identify how changes in technology affect the economy
- Understand that every job opportunity is related to economics
- Recognize how the influence of the development of technology, immigration of peoples and changes in the world market effect career opportunities

**TECHNOLOGY**

- Integrate advanced word processing skills into daily assignments
- Continue to advance in keyboarding skills
- Troubleshoot basic malfunctions
- Know proper technology terms
- Understand the equipment to access, process, retrieve and communicate information
- Incorporate database and spreadsheet components into presentations
- Integrate advanced use of electronic resources into class assignments and presentations
- Investigate technology-related occupations
- Demonstrate a responsible, ethical use of technology
- Understand



**Killeen Adventist  
Junior Academy**

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

**KEY LEARNINGS  
Eighth Grade**

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