

BIBLE **Eighth Grade 2006-2008**

Into His Likeness: 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

Life: Plants

- Compare plant kingdom divisions in their structure and function
 - Describe photosynthesis, cell respiration, transportation, and transpiration
 - Describe plant reproduction
 - Describe types of plant tropisms and how plants adapt
- ### **Health: Consumer and Community Health, Teen Health Risks, Diseases**
- Know how to locate and use community health resources
 - Identify community health organizations and agencies
 - Identify major teen health risks and how risks may be reduced
 - Describe how life style pathogens, family history, and other risk factors are related to the cause or prevention of disease
 - Identify the structure and function of bacteria and viruses; explain how they transmit diseases
 - Describe personal and community health care practices that result in prevention, detection, and treatment of communicable diseases
- ### **Physical: Chemistry, Energy Forms, Work and Machines**
- Identify characteristics of a simple physical and chemical changes
 - Describe the relationship between atoms, elements, molecules, ions, and isotopes
 - Identify symbols of common elements and describe how they are organized on the periodic table
 - Distinguish between compounds, mixtures, and type of mixtures
 - Explain a chemical reaction and chemical bonds
 - Identify the make-up of the three types of radiation
 - Describe how nuclear fission and fusion are produced
 - Compare the properties of acids and bases
 - Explain how energy can change from one form to another
 - Describe the relationship between simple and compound machines

- Explain the operation of a simple mechanical device and its relation to work and power

Earth: Creation, Evolution, Earth's Age, Fossil Record, Ecology

- Distinguish between naturalistic evolution and special creation
- Identify several theories of origins and their basic assumptions
- Explain why "The Story of the Flood" is important to creation
- Describe Darwin's naturalistic evolution
- Describe the three views on the age of the earth
- Compare the naturalistic interpretation of fossils and creationist
- Analyze impacts of human activity on the ecosystems of the earth
- Identify ways in which organisms react to changing environments
- Describe methods of conserving natural resources
- Identify factors that cause species to become endangered or extinct

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/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: United States History Reconstruction and the Industrial Revolution

- Identify how God has led in the past
- Teach how the history of the Adventist church is threaded throughout modern US history
- Trace the Millerite movement and the Great Disappointment
- Study Joseph Bates and the spread of Sabbath keeping
- Discuss the aftermath of the Great Disappointment
- Discuss attempts made to improve the lives of African Americans during the Reconstruction era
- Identify major inventors during the time of the Industrial Revolution
- Describe growth and development of the transportation industry
- Tell how industrial growth caused migration - rural to urban areas
- Study the causes and effects of the Spanish-American War
- Discuss the open-door policy in China and how it impacted the US
- Describe the development of the Panama Canal
- Study the Great White Fleet, and the US as a World Police
- Study the 17th, 18th, and 19th Amendments
- Explore the events and reasoning behind WWI
- Trace the major events of WWI
- Explore the new technology of war used during WWI
- Explain the Treaty of Versailles
- Describe the Great Migration of 1920
- Discuss the roaring 20's and prohibition
- Study the crash of the stock market and the Great Depression
- Study the rise of dictators in Europe and Asia that led to WWII
- Discuss the bombing of Pearl Harbor
- Trace the major events of WWII
- Study how atomic weapons were used to end the war
- Explore how Soviet-American tensions shaped the cold war
- Discuss the US attempt to contain communism
- Explore the civil rights movement
- Discuss the age of flight
- Discuss presidents from Nixon to the current administration

Civics and Government

- Explain relationship between rights and responsibilities of citizens
- Identify how a person becomes a citizen of the United States
- Evaluate policies, practices, and consequences of Reconstruction, including the 13th, 14th, and 15th Amendments

- Describe the responsibilities of the US government to its citizens
- Describe various types of elections and explain ways that citizens can participate in political parties, campaigns, and elections

Geography

- Learn how to read topographic maps and interpret their symbols
- Describe how physical features influence industrialization, urbanization, and population density in a nation
- Explain how geography impacts international relationships
- Identify how climate affected different events in history
- Study climatic changes brought about by the greenhouse effect, acid rain, air and water pollution, and depletion of the ozone layer
- Identify on maps the distribution of natural resources

Economics

- Explain how government has encouraged business expansion
- Discuss child labor, working conditions, and laissez-faire policies toward big business and examine the labor movement
- Evaluate how the characteristics of a market economy have affected the economic development of the United States
- Use charts, graphs, tables, and diagrams to compare growth in national product, imports, exports, population growth, etc.

Individuals, Society, and Culture

- Understand the importance of developing a personal relationship with Christ
- Understand that God's plan for the individual is to engage in service to others
- Understand how the daily life of Americans has changed as a result of the Industrial Revolution
- Describe how the Great Depression affected American society
- Discuss the changing roles of women during WWI and WWII
- Compare the adaptations of different immigrant groups in the US. Bermuda and Canada
- Identify solutions to problems that arise when scientific advancements and social norms or values come into conflict
- Show how religious leaders and the spiritual awakening affect reforms from the 19th century to the present
- Identify ways that Adventist organizations work to improve life

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 the legal issues for using/accessing software, music, etc.



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Adventist Education
A JOURNEY TO EXCELLENCE

KEY LEARNINGS
Eighth Grade

2006 - 2008