

Sixth Grade 2007-2008

BIBLE

Exploring Jesus' Life: His Teaching, Death, Resurrection and the Early Church

- Identify the Bible as God's way of communicating to humanity
- Demonstrate how to use aides for greater understanding when studying the Bible
- Understand that God is omnipotent, omniscient and infinite, yet is affected by your response to Him
- Explain the relationship of God, heaven and the angels to Jesus and His life on earth
- Know what the great controversy is and how the plan of salvation relates to it
- Know the gospel story and why it is important to accept Jesus as Savior and model one's life after His
- Understand importance of baptism, becoming a part of God's family
- Explain the mission of the church and the importance of using one's spiritual gifts to share the Gospel with all people
- Understand the early development of the Christian

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

- Recognize and write the C major scale
- Recognize the sound of a major scale
- Sight-read a simple song
- Identify and sing cadence
- Demonstrate and use first and second endings
- Identify canon form (liturgy)
- Know symbols and meanings for fermata and tenuto
- Compare the tone qualities of orchestral music from different cultures
- Identify and sing early Advent hymns

LANGUAGE ARTS

Viewing

- Scan for a specific purpose using visual media
- Define and interpret examples of literary forms from visual media

Listening

- Adapt listening strategies to fit various situations
- Analyze presentations using established criteria
- Follow multi-step instructions

Reading

- Adapt pace and reading techniques
- Understand specific devices an author uses to accomplish purpose
- Recognize and determine meaning of non-standard usage – images, slang, dialects
- Read for comprehension and application

Speaking

- Use effective speaking skills in varied situations
 - Use appropriate verbal and non-verbal techniques for oral presentations
- #### Visually Representing
- Produce visual media to support an opinion
 - Generate visual media to compare and contrast information
 - Design visual media to conduct an interview
 - Demonstrate how media effects the coverage of events or issues
- #### Writing
- Begin word processing in all subject areas
 - Practice the writing process
 - Use characteristics of good writing
 - Write entertaining and complete stories
 - Check for effective transitions between sentences to unify ideas
 - Write clear, coherent, and focused essays and reports including footnotes and italics

MATH

Number and Operations

- Understand the meaning and use of exponents
- Understand the associative property of addition and multiplication
- Extend understanding of whole number operations to fractions, decimals, percents and mixed numbers
- Understand and apply divisibility rules
- Round decimals to the nearest thousandths
- Understand the concepts of ratio, percent and percentage
- Compare and order improper fractions, mixed numbers and decimal fractions to thousandths
- Develop meaning for integers and use integers to represent and compare quantities
- Add, subtract, multiply and divide integers
- Give the prime factorization of a number
- Use factor trees to give the prime factorization of a number
- Convert fractions to decimals to percents and vice versa
- Convert fractions to terminating, repeating or rounded decimals
- Solve proportions with an unknown
- Understand and use mathematical vocabulary appropriately
- Write a remainder as a fraction or decimal
- Find the percent of a number
- Find the percent one number is of another and find the original number when the percent is given
- Use percents to determine sales tax, commission, discount and simple interest

Algebra

- Write, solve and graph linear equations
- Use two-step operations to solve linear equations
- Write and solve inequalities
- Infer and use a rule to determine a missing number
- Use appropriate mathematical vocabulary and properties
- Compare integers on a number line

Geometry

- Define and use appropriate geometrical vocabulary
- Use strategies to develop formulas for determining perimeter and area of triangles, rectangles and parallelograms and volume of rectangular prisms
- Find the area of parallelograms and triangles
- Find the circumference and area of circles
- Find the volume and surface area of prisms
- Classify triangles according to the angles and sides
- Understand parallel, intersecting, and perpendicular lines
- Measure an angle using a protractor
- Draw similar figures that model proportional relations
- Explore fractal patterns
- Do geometric construction, e.g. bisect a segment

Measurement

- Describe how perimeter, area and volume are affected when

- dimensions of a figure are changed
- Use strategies to develop formulas for finding circumference and area of circles, and area of sectors
- Express solutions to the nearest unit
- Estimate length, area, volume, perimeter, circumference, area of a circle, various shapes and surfaces using everyday objects
- Make conversions within the same measurement system while performing computations
- Use indirect measurement such as similar triangles to solve problems

Data Analysis and Probability

- Calculate the probability of independent and dependent events
- Construct a multiple line graph
- Make logical inferences from statistical data
- Calculate the odds
- Design an experiment to test a theoretical probability and explain how the results may vary
- Construct a scatter plot
- Make organized lists and tree diagrams

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: Electricity, Magnetism

- Compare and describe static and current electricity
- Identify the difference between conductors and insulators.
- Differentiate between open and closed circuits and parallel and series circuits.
- Identify characteristics of magnets and what causes magnetism
- Describe the relationship between electricity and magnetism
- Identify uses of electromagnets

Life: Human Body Systems

- Describe and explain the structure and functions of the human body in terms of cells, tissues and organs
- Describe the functions of each major organ system in the human body
- Describe and explain the relationship and interaction of the organ systems in the human body

Earth: Geology

- Describe Earth's structure and features
- Explain how Earth changes/has changed over time (e.g., erosion, weathering, earthquakes)
- Explore and interpret evidences for the Genesis Flood and the Ice Age
- Describe the components and relationships of Earth's land forms and geological features
- Describe the processes by which rocks and soils are formed
- Classify rocks, minerals and soils based on their origin and their chemical and physical properties
- Identify how successive layers of sedimentary rock and the fossils contained within them can be used to confirm the age, history and changing life forms of the Earth

Health: Drug Effects, Decision Making, Nutrition

- Define drug and identify helpful and harmful drugs
- Explain the short- and long-term physical and emotional consequences of drug use
- Identify personal and community resources for drug abuse education and treatment
- Describe the steps in decision-making, how values develop and how these apply to healthy choices
- Explain healthy eating practices and design nutritional goals based on national dietary guidelines and individual needs
- Identify eating disorders and explain how they adversely affect 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

World History: Creation – Middle Ages (Ancient Civilizations: Mesopotamia, India, Sub-Saharan Africa, Egypt, Greece, Rome, China; Americas: Incas, Mayas, Aztecs; Current Events)

- Recognize God's involvement in the world's history through the prophetic fulfillment of the rise and fall of nations
- Describe the relationships between people/groups, events and cultures in World History
- Understand the major characteristics and historical influence of ancient civilizations on world development – past and present, and be able to place them on a timeline
- Understand the democratic legacy of Greek ideas and government
- Describe the relationships between people/groups, events and cultures in World History
- Understand the democratic legacy of Greek ideas and government
- Understand the global role and work of the Adventist church in North America

Civics

- Compare and contrast the various forms of government in the world's history and identify their effect on the modern world
- Understand how politics helps people with different ideas to reach agreements
- Understand competing ideas about the purposes government should serve
- Know that the world is divided into nations that claim sovereignty over a defined territory and jurisdiction over everyone within it
- Know the rights and responsibilities of citizenship

Geography

- Interpret maps and charts of the world and organize information about people, places and environments
- Construct charts and maps to show information
- Identify the characteristics of ecosystems on the Earth's surface

Economics

- Understand the broader defining characteristics of the term stewardship
- Understand the concept of prices and the interaction of supply and demand in a market economy
- Know the impact of trade on the development of countries
- Identify and understand the changes in people's lives as a result of technology
- Understand economic systems

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



Killeen Adventist Junior Academy

A Christian School operated by the Seventh-Day Adventist Church

KEY LEARNINGS Sixth Grade

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