

KEY LEARNINGS: SIXTH GRADE

2009-2011

BIBLE

Christ - Our Life: His Teaching, Death, Resurrection and the Early Church

- Identify the Bible as God's way of communicating who He is 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 one's 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 the importance of baptism and 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
- Understand the early development of the Christian church

FINE ARTS

Art - Consult the *NAD Fine Arts Curriculum Guide* for suggested activities to meet these objectives.

- 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

Extended Reading and Writing

- Use the writing process
- Write expository papers
- Recognize and read grade-appropriate sight words
- Organize final drafts logically
- Write from an outline
- Edit spelling, grammar and punctuation
- Write sentences, paragraphs, poetry, and stories
- Write using a variety of genres

Comprehending, Studying, and Evaluating Ideas

- Sequence events through pictures, notes, timelines, charts, and paragraphs
- Write paragraphs with main ideas and details

- Develop main idea outlines using number notes with topics and details
- Determine meaning of unfamiliar words and phrases by using context clues or resource materials
- Create and experiment with visual media to communicate story elements and establish mood
- Evaluate by opinion-proof notes and persuasive paragraphs
- Analyze story elements
- Use graphic organizers
- Develop two-column notes and charts
- Write summaries
- Develop discriminatory skills
- Understand similes and metaphors
- Synthesize information from multiple, reliable resources

Reference Skills

- Use library references
- Use reference resources

Word Study

- Read, spell, and write multi-syllabic words
- Correctly spell grade-appropriate words
- Read, spell, write, and define suffixes
- Read, spell, write, and define words from other cultures
- Read, spell, write, and define easily confused words

Sentence Skills

- Identify and write different kinds of sentences
- Recognize and edit: commas, abbreviations, quotations, titles, compound sentences, appositives
- Recognize and use possessive nouns
- Identify and use verbs
- Identify and use adverbs
- Identify and use parts of speech
- Recognize and write sentences with natural, interrupted, and invented order
- Identify and use prepositional phrases
- Identify and use adjective phrases

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 ($\frac{1}{2}$ circle, $\frac{2}{3}$ circle, $\frac{1}{3}$ circle, $\frac{1}{4}$ circle)
- Express solutions to the nearest unit
- Estimate length, area, volume, perimeter, circumference, area of a circle, various shapes and surfaces using everyday objects, e.g. string, arms, etc.
- 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 specialized skills
- Adapt and combine skills to the demands of increasingly complex situations of selected movement forms

SIXTH GRADE, PHYSICAL EDUCATION continued

2009-2011

- Demonstrate beginning strategies for net and invasion games
- Apply previously learned knowledge, or use instruction 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 that can be applied to games, e.g. similarity of the ready position in striking movement forms
- Understand terms that describe basic movement
- Use basic offensive and 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 and 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 in physically active opportunities

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 by learning more about both similarities and differences
- Cooperate with disabled peers and those of different gender, race, ethnicity and religion
- Work cooperatively with both more and less skilled peers

SCIENCE

Life: Cells, Human Body

- Describe and explain the structure and functions of the human body in terms of cells, tissues and organs
- Identify and describe the development and function of the cell and its parts
- Identify common characteristics of cells
- Explain the function of the nucleus
- Distinguish between chromosomes, genes, DNA, and their structure
- Identify the major skeletal, muscular, and integumentary systems
- Identify the parts and function of the respiratory, circulatory, and nervous systems
- Describe differences among atoms, elements, molecules, and compounds
- Understand the function of the five senses

Health: Human Body (Digestion, Excretory), Nutrition, Safety/First Aid, Natural Disasters

- Identify and describe the parts of the digestive system
- Identify and explain the importance of the excretory system
- Identify and describe the importance of basic nutrients
- Explain healthy eating practices based on the national food pyramid
- Identify nutritional goals based on national dietary guidelines

SIXTH GRADE, SCIENCE continued

2009-2011

- Define eating disorders and explain how they adversely affect health
- Explain the appropriate first aid procedures to follow in case of emergencies
- Identify common safety hazards and ways to prevent injuries/accidents
- Identify safety procedures for common natural disasters

Physical: Magnetism, Electricity

- Identify characteristics of magnets and what causes magnetism
- Describe the relationship between electricity and magnetism
- Identify uses of electromagnets
- Compare and describe static and current electricity
- Identify the difference between conductors and insulators.
- Describe electrical safety precautions, conservation procedures, and simple electrical transformation devices
- Identify and explain types of circuits, batteries, and simple electronic devices

Earth: Geology

- Describe Earth's structure and features
- Explain how Earth has changed over time e.g. erosion, weathering, earthquakes
- Explore and interpret evidences for the Genesis Flood and the Ice Age
- Describe how earthquakes are caused, volcanoes are formed, and land features created through the use of plate tectonics
- Describe the processes by which rocks and soils are formed and their relation to the rock cycle
- Identify common rocks and minerals
- Identify and describe features of erosion and weathering

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 and 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

Sixth grade will study World History from ancient times through Early Greek and Roman civilizations.

Biblical Perspective:

- Compare and contrast the beginnings of civilization as presented from an evolutionary viewpoint with the beginnings of civilization as presented from a Biblical perspective

Egyptian Development and Civilizations:

- Describe the achievements of ancient Egypt

The Rise of the Israelite Nation:

- Discuss the movements of Hebrew peoples
- Identify how the beliefs of Judaism set the stage for the birth and life of Christ

Eastern Asia, Africa and its Civilizations:

- Explain the importance of early trade routes
- Describe developments in the Tang and Song Dynasties in China
- Trace the voyages from Europe that resulted in colonization of parts of Asia and the Southwest Pacific

Ancient, Classical, and Hellenistic Greece:

- Study the role of Greece and Medo-Persia as they relate to the biblical image of Daniel 7
- Trace the rise of Alexander the Great

Civics and Government

Foundations of Government:

SIXTH GRADE, SOCIAL STUDIES continued

2009-2011

- Trace the forms of government in ancient Greece
- Outline the founding of the Persian Empire

Functions of Government:

- Identify principles and practices of democracy in current governments of countries in Africa, Asia, and the Southwest Pacific

Roles of Citizens:

- Define and compare, through current events, citizenship and the citizen's role in selected countries of Africa, Asia, and the Southwest Pacific

Geography

Maps, Globes, and Graphics:

- Explain the components and use of maps
- Locate and label all the world's continents

Places:

- Explain the reasons for the locations of major cities related to natural land forms, waterways, and climate of the eastern hemisphere

Climate:

- Identify the climate regions of the eastern hemisphere and explain how water and land forms affect the climate

Natural Resources and Environment:

- Explain how care of natural resources and the environment is a responsibility to both God and country

Economics

Historic Issues:

- Trace the development of agricultural techniques that led to economic surplus and the emergence of cities

Commerce:

- Describe how the environment in different countries contributes to the way people make a living

Individuals, Society, and Culture

Individual:

- Understand the importance of developing a personal relationship with Christ
- Recognize the influence of peer relationships in an individual's choices and interests
- Understand how one's values and attitudes influence our choices

Society:

- Identify how various groups grow to form and affect a society

Culture:

- Understand that cultures change through technology and migration of people

Religion:

- Compare the basic beliefs of the Seventh-day Adventist Church to eastern religions and philosophies

Mission/Outreach:

- Examine Seventh-day Adventist global outreach

TECHNOLOGY

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