

## KEY LEARNINGS: SEVENTH GRADE

2009-2011

### BIBLE

**God is the Victor:** Through Creation, Sin, the Plan of Salvation, the Life of Christ and History of the Seventh-day Adventist church

- Understand the nature of God as taught in the scriptures
- Know what the Bible teaches about the origin of sin and God's plan of salvation
- Explain the biblical account of creation and God's relationship to man as his Creator
- Understand the causes and results of the flood
- Understand why pain and suffering exist from an universal viewpoint
- Explain why God established a chosen people through Abraham and his family
- Understand the need for a written law and the role of the desert sanctuary as a teaching device for the Israelites
- Describe how God continued to pursue His people through Israel's experience as a nation and their repeated rejection of God as their leader
- Know the major events in the life of Jesus and the basic values and tenants of His teaching
- Understand the history and spread of Christianity from the early church through the Reformation
- Explain the development of the Seventh-day Adventist doctrines concerning the sanctuary and the second coming of Jesus

### 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

- Identify meter changes
- Learn the history of notation
- Recognize the sound of a minor scale
- Sight-read a two-part song
- Recognize a bridge between two music selections
- Know the meaning of rubato
- Recognize music of Eastern cultures
- Identify hymns of Adventist heritage
- Learn the historical development of the SDA hymnal

### LANGUAGE ARTS

#### Extended Reading and Writing

- Use the writing process
- Write summaries
- Edit for spelling, grammar, and punctuation
- Write in cursive legibly with proper form and size
- Organize final drafts logically
- Write from an outline
- Show how the writer thinks and feels about a topic in the final draft

- Read a variety of genres
- Write using a variety of genres
- Read to obtain information
- Write from a Christ-centered perspective
- Write autobiographies, journals, flip books, and spool papers
- Write to share, explain, express feelings and opinions, and share research
- Write a friendly letter

**Comprehending, Studying, and Evaluating Ideas**

- Listen to, contribute, and stay on topic in discussions
- Determine meaning of unfamiliar words through context clues
- Evaluate by opinion-proof notes and persuasive paragraphs
- Predict outcomes
- Write paragraphs with main ideas and details
- Give oral reports
- Analyze story elements
- Develop two-column notes and charts
- Use graphic organizers
- Analyze, compare and contrast characters through notes
- Take notes on narratives using story plans
- Synthesize information from multiple reliable resources
- Use character notes and maps
- Answer printed questions

**Reference Skills**

- Use library references
- Use reference resources
- Use a Bible concordance

**Word Study**

- Correctly spell grade-appropriate words
- Read, spell, and write multisyllabic words
- Read, spell, and write grade-appropriate sight words
- Read, spell, and write synonyms
- Write clear, concise sentences, including compound and complex sentences
- Identify and use nouns
- Identify and use prepositions
- Identify and use objects of the preposition
- Diagram sentences with prepositional phrases
- Edit for punctuation, grammar, and spelling

**Sentence Skills**

- Write clear, concise, varied, and complete sentences
- Identify and write the four types of sentences
- Edit for capitalization
- Identify and use grade appropriate punctuation
- Write titles correctly
- Recognize and use action, helping, singular, and plural verbs
- Recognize and use perfect tenses, progressive tenses, active and passive voice
- Recognize and use transitive and intransitive verbs
- Write sentences, paragraphs, essays, and stories
- Identify and use adverbs
- Recognize and use comparative and superlative forms
- Recognize, use, and edit double negatives
- Use new vocabulary in concept maps, sentences, and discussion
- Identify and use pronouns

- Recognize and use possessive, agreement with indefinite pronouns
- Recognize and use interrogative, demonstrative, indefinite, reflexive, intensive, and pronoun cases

## MATH

### Number and Operations

- Understand and use scientific notation
- Evaluate powers that have negative and zero exponents
- Use integers to express quantities that occur naturally in problem situations, e.g. representing direction, loss, gain, etc.
- Develop and use number sense for integers, rational and irrational numbers
- Understand and use the additive inverse property
- Understand the principles of the distributive property
- Apply properties of operations with whole numbers, fractions and decimals
- Use proportions to solve problems
- Compute with rational numbers using a calculator to perform difficult computations
- Understand squares and square roots
- Estimate the square root of a number less than 100
- Find the percent of increase and/or decrease

### Algebra

- Use and apply ratios, proportions, averages and percentage
- Graph inequalities
- Choose a formula to use in problem solving
- Demonstrate proficiency in using the laws of exponents
- Use the Pythagorean Theorem
- Manipulate simple polynomials

### Geometry

- Find the area of a trapezoid
- Find the surface area of a cylinder
- Find the volume of various geometric solids, e.g. pyramids and cones
- Use transformations to explore congruence and create designs
- Explore the angle measures in a triangle
- Understand complementary, supplementary and vertical angles
- Draw and interpret scale diagrams

### Measurement

- Use graphs, charts and formulas to convert between a variety of standard/metric measures
- Apply ratios to solve measurement problems
- Use scale models to represent measures of real-life objects
- Relate ancient monetary values to current values, e.g. shekel, denari, mite
- Develop a proportionately correct time line using complex concepts
- Use strategies to develop formulas for finding volume and surface areas of solids
- Explain how time zones are determined

### Data Analysis and Probability

- Understand the number of possible permutations
- Predict the number of times an event will occur
- Construct a multiple bar graph
- Construct a circle graph
- Make a histogram
- Make a stem and leaf 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:** Simple Animals, Arthropods, Monerans, Protista, Fungi, Viruses, Genetics

- Distinguish between vertebrates and invertebrates
- Identify characteristics and structures of sponges and cnidarians, worms, mollusks, echinoderms, crustaceans, proticsts, fungi and viruses
- Describe the main groups of bacteria
- Explain how bacteria reproduce and conditions that influence bacterial growth
- Describe how the bodies immune system reacts to viruses and bacteria
- Explain the importance of the nucleus

- Explain genetic engineering
- Explain the difference between heredity and genetics

**Health:** Drugs, Human Sexuality

- Define and identify helpful and harmful drugs
- Explain the physical and emotional consequences of drug use
- Describe the steps in decision making, how values develop, and how these apply to healthy choices
- Explain the physical, emotional, intellectual, and social changes occurring at puberty
- Describe God's plan for human sexual relationships
- Explain the adverse physical, emotional, and economic consequences of premarital sex and ways to support a decision for abstinence

**Physical:** Force/Motion, Energy/ Work

- Describe and compare types of force and friction
- Define and apply understanding of gravity, mass and weight
- Define and describe elastic/nuclear forces and electrical/magnetic force
- Explain and describe types of friction
- Describe Newton's laws of motion
- Define and use correctly the terms of motion (velocity, speed, acceleration, momentum, etc.)

**Earth:** Origin of the Universe, Astronomy

- Compare the Biblical account of creation with the big-bang theory
- Explain how the study of astronomy supports the concept of a Creator
- Describe the major accomplishments in the U.S. space program
- Know how the Earth's position, relative to the sun, affects conditions on earth
- Describe the life cycle and classification of stars and the instruments for study
- Compare and contrast the main types of galaxies

**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**

**Seventh grade will study World History from the establishment of the Byzantine Empire through modern times.**

From Political Power to Religious World Power:

- Trace the rise and fall of Rome as a religious power, and its relationship to the beginning of the Dark Ages
- Describe ideas of major figures during the Reformation

The Crusades, Europe, and the Era of Exploration:

- Describe the feudal system
- Explain how Black Death led to the decline of medieval monarchies
- Examine trading cities, such as Florence and Venice

The Americas:

- Study the Aztec and the Inca
- Study Spanish colonies in Mexico and South America and French and British colonies in Canada

Origins and Accomplishments of the Renaissance and Reformation:

- Describe the way in which the revival of classical learning and the arts fostered a new interest in humanism
- Describe the growth and effects of new ways of distributing information
- Identify the major translators of the Bible

### **Civics and Government**

#### Foundations of Government:

- Discuss how the Magna Carta embodied in such documents as the English Bill of Rights and the American Declaration of Independence

#### Functions of Government:

- Compare and contrast different forms of government
- Compare the parliamentary democracies of Europe, Bermuda, Canada, and Latin America with the United States

#### Roles of Citizens:

- Compare and contrast citizenship and roles of citizens in selected nation-states of Europe, Bermuda, Canada, Latin America, and the United States

### **Geography**

#### Maps, Globes, and Graphics:

- Memorize the seven continents
- Use longitude, latitude, map scales, the compass rose, and the grid system to find specific locations on a map

#### Places:

- Name and locate major regions in the western hemisphere

#### Climate:

- Explain the reasons climate affects the way people in the western hemisphere live

#### Natural Resources and Environment:

- Describe the impact of science and technology on natural resources, and the environment
- Describe the Christian's responsibility for the environment

### **Economics**

#### Historic Issues:

- Identify Marco Polo and understand the economic effects of the reopening of the ancient "Silk Road" between China and Europe

#### Commerce:

- Evaluate the domestic and international impact of various economic agreements such as NAFTA and the European Union

### **Individuals, Society, and Culture**

#### Individual:

- Understand the importance of developing a personal relationship with Christ
- Understand that an individual's behavior is affected by heredity and environment

#### Society:

- Study how responsible citizens impact society

#### Culture:

- Describe the influence of western culture on scientific/technological choices and advancement
- Understand how cultural diversity benefits society

#### Religion:

- Understand that most cultures are shaped by religious beliefs

#### Mission/Outreach:

- Participate in community or mission outreach/service projects

### **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

**SEVENTH GRADE, TECHNOLOGY continued**

2009-2011

- 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.