

John Nevins Andrews School



Mustangs

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Key Learnings in

Seventh Grade

KEY LEARNINGS: SEVENTH GRADE

BIBLE

Exploring God: 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

The purpose of this document is to give families an overview of their child's classroom learning experiences throughout the entire school year. A child's program may differ depending on his/her instructional needs.

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

Viewing

- Understand how the type of media affects coverage of events or issues
- Draw conclusions from details in visual media to answer specific questions
- Scan, infer, and summarize for a specific purpose using visual media

Listening

- Listen with an open mind
- Analyze the accuracy and validity of spoken information

Reading

- Increase word knowledge through vocabulary development across the curriculum
- Use reading for communication
- Consult other sources to clarify meaning
- Choose appropriate word meaning
- Apply a variety of strategies for word study

Speaking

- Identify strategies used by speakers in oral presentations
- Ask questions to elaborate and clarify ideas
- Use correct vocabulary in speech

Visually Representing

- Develop visual media for taking, keeping, and reviewing notes
- Create visual media to clarify ideas
- Construct visual media to support a presentation

Writing

- Practice the writing process
- Use characteristics of good writing
- Write simple, compound, and complex sentences
- Vary persuasive words

SEVENTH GRADE LANGUAGE ARTS Continued

- Expand uses of punctuation
- Use technical terms correctly
- Cite information in appropriate ways; e.g. footnote, bibliography, endnote
- Write essays within a given timeframe

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

SEVENTH GRADE MATH Continued

- 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 wellbeing

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

SEVENTH GRADE PHYSICAL EDUCATION Continued

- 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: Force/Motion, Energy/ Work

- Describe and compare types of force and types of friction
- Define and extend understanding of gravity, mass and weight

SEVENTH GRADE SCIENCE Continued

- Describe Newton's laws of motion
- Define and describe motion-related terms such as balanced/unbalanced forces, distance/displacement, speed/velocity, acceleration and momentum
- Identify forms of energy and how energy can change from one form to another
- Distinguish between work and power
- Define simple machines and identify characteristics of various types
- Describe the relationship between simple and compound machines
- Distinguish between potential and kinetic energy and explain mechanical advantage

Life: Cell Theory, Genetics, Simple Animals

- Describe and explain the structure, function and theory of cells
- Describe how the traits of an organism are passed from generation to generation
- Explain genetic engineering and its impact
- Categorize simple animals into groups according to how they accomplish life processes and by similarities and differences in external and internal structures

Earth: Astronomy

- Describe characteristics and movement patterns of objects in the universe
- Describe the relationships of the Earth to the sun, the moon and other interplanetary objects and how they account for the day, year, phases of the moon, eclipses, seasons and ocean tides
- Describe the life cycle and classification of stars and the instruments for study

SEVENTH GRADE SCIENCE Continued

Health: Transmission of Diseases, Sexuality

- Describe how lifestyle, 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 and explain how they transmit diseases
- Describe God's plan for sexual relationships
- Explain the adverse physical, emotional, and economic consequences of premarital sex and ways to support a decision for abstinence

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 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 – NPUC

OVERRIDING STATEMENTS: Civics, geography and economics should be studied within the context of the history for each grade.

INTEGRATION OF FAITH & LEARNING: Although individual religious concepts are not explicitly stated, the idea of God's leading in the affairs of history and human relationships should be embedded in all of the social studies lessons.

SEVENTH GRADE SOCIAL STUDIES Continued

World History: Middle Ages – Present (Middle Ages: Europe and Japan; Exploration and Colonization [Africa, Asia]; Renaissance and Reformation, Rise of Islam and Catholicism, Age of Enlightenment, Revolutions, Imperialism, Nationalism, 20th Century; 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 time line
- Understand the major characteristics and impact of events from Middle Ages to the present, and be able to place them on a time line
- Understand the role of the Catholic Church in the Middle Ages
- Understand the causes for change socially and historically in Europe
- Understand the rise of religions: Islam, Catholicism, Protestantism
- Understand the rise of the Mongol Empire and the consequences of Eurasian people
- Identify the key aspects of the Renaissance thinking through inquiry and research
- Identify how the exploratory and commercial expeditions between 1450 – 1600 led to global transformation
- Understand how innovations in agriculture, industry and transportation led to the industrial revolution in and capitalism
- Represent and interpret data and chronological relationships from history using time lines and narratives

SEVENTH GRADE SOCIAL STUDIES Continued

- Interpret, use and document information from multiple source
- Define alternatives, select and support alternatives
- Understand the global role and work of the Adventist church
- Understand how current events have been influenced by events of the past

Civics

- Identify and compare political systems of the world: feudalism, monarchy, democracy, etc.
- Understand the sources, purposes and functions of law
- Outline and critique the evolution of democratic ideas and the impact on Western Civilization
- Know the importance of Christian citizenship and cultural diversity

Geography

- Identify the location of key mountain ranges, deserts, rivers, political boundaries and cultural features on maps and globes
- Understand the interdependency between people and the environment
- Compare physical and cultural characteristics of the regions of the world

Economics

- Identify the principles of Christian stewardship: management of time, talent, property
- Describe how transportation and communication networks affect people, goods and ideas e.g. the silk road, the crusades
- Explain how the interaction of supply and demand determines prices
- Identify the impact of the technology revolution on society

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.

Here are some suggestions to help your child be more successful at school

1. Assure your children that they are loved. Tell them that you love them, and show them by spending time doing things with them that they enjoy.
2. Provide your children with opportunities to talk about their interests, current events, school activities, and everyday life.
3. Encourage reading. For younger children take time to read to them each evening before bedtime. Classics and Bible stories are excellent. Take your children to the library on a regular basis.
4. Help your children establish a regular daily routine for homework, play time, chores, television watching, and family time.
5. Make sure your children get plenty of rest each night. Research has shown that adequate sleep boosts a child's achievement and helps to prevent childhood obesity. Children under 5 years of age should get 11 hours of sleep. Children ages 5-10 should get 10 hours or more. Children older than 10 years old should get at least 9 hours of sleep.
6. Model the good manners you want your child to exhibit. Words like please, thank you, and excuse me are always in style and need to be deliberately taught. Daily family worship should be a regular part of your child's routine. Provide an opportunity for your children to develop a spiritual faith that can be relied upon during the difficult growing years. Regular church attendance is an important part of a well balanced lifestyle.

7. Younger children learn by playing. Learning games provide a rich source of opportunities for your children to learn.
8. Monitor your children's school work. Work with your children's teachers. Always consider yourself a partner of your children's teachers.
9. Support your children's teachers and the school rules. If you are concerned about something, call or meet with your children's teachers promptly. Don't wait until a full-grown problem develops.
10. Make sure your children get a healthy, substantial breakfast each morning. Nourishing meals are important to your children's health as well as their success in school. Lunches and snacks that your children bring to school should include healthy treats.
11. Make sure children arrive at school on time every unless they are sick. A child who is 10 minutes late every day will miss 30 hours of instruction during the year. If they are sick please keep them at home. Sharing is good, but sharing a nasty bug is not.
12. Teach your children to respect themselves and others. The Golden Rule, the model Christ gave us, should be the foundation for all our interpersonal relationships.
13. Make sure your children get regular health, vision, and dental check-ups.
14. Be positive about school. Do not make negative comments about your children's school or teachers.
15. Check your children's school newsletter and web site at www.jna.org regularly.
16. Attend back to school nights, parent/teacher conferences, and be an enthusiastic supporter of your school's activities.
17. Teach your children the importance of education. Model lifelong learning. Praise your children when they do their best.
18. Encourage responsibility and independence. Help your children get organized for school the night before.
19. Have a regular place for your children to study at home. It should have a sturdy chair, adequate lighting, a place to write and work, and be supplied with adequate supplies such as pencils crayons, calculator, etc. There should be no television, video games, music players, or any other distractions in the study area.
20. Share with your children your standards for acceptable computer use and monitor their computer use. Computers should be in a location where they are readily viewable by parents and other family members.

For additional resources, please visit the school's website at www.jna.org

