

John Nevins Andrews School



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Key Learnings in



KEY LEARNINGS: FIFTH GRADE

BIBLE

Exploring God: Through the Stories of the Old Testament

- Understand that God continues to offer the gift of salvation despite humanity's rejection of Him
- Know that God's character of love is revealed through His laws and interaction with His people
- Understand that God created humanity with the power of choice
- Understand the covenant relationship God initiated with His people and the role of faith, repentance and forgiveness
- Understand the importance of daily commitment to God - relying on His power for a victorious life
- Understand that God has always had a remnant of people that have remained a faithful witness for Him
- Know that each person has been given unique talents and spiritual gifts by God
- Understand the value of prayer, praise and reverence in communicating with God
- Identify the sanctuary as a symbol of God's love, acceptance and restoration through the Gospel

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

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.

FIFTH GRADE FINE ARTS Continued

- 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

- Know names of lines and spaces of bass clef
- Identify and write symbols for sharp, flat and natural
- Sight-read a musical phrase
- Use *D.C. al fine*
- Know symbols and meanings for ritardando and accelerando
- Know symbols and meanings for crescendo, decrescendo and diminuendo
- Listen to music of the baroque period
- Learn names of some hymn writers

LANGUAGE ARTS

Viewing

- Interpret impressions from visual media that influence understanding
- Understand similarities and differences among a variety of media
- Determine correct word meaning from visual context using electronic devices

Listening

- Interpret a speaker's topic, purpose, and perspective

FIFTH GRADE LANGUAGE ARTS Continued

- Use listening skills in group settings
- Take brief notes to identify main points and key information
- Draw inferences and reach conclusions

Reading

- Read independently, selecting appropriate reading strategies
- Use dictionary, glossary, thesaurus, encyclopedia, card catalog, and electronic devices
- Use abstract vocabulary to extend reading vocabulary
- Use skim for overview and scan for specific information to improve comprehension
- Use compare and contrast to improve comprehension

Speaking

- Use oral language skills in a variety of settings
- Participate in group discussions, refine and use cooperative group processes
- Identify persuasive messages

Visually Representing

- Develop visual media to model responsible decision-making skills
- Demonstrate how visual media techniques establish mood
- Develop visual media to show similarities and differences

Writing

- Practice the writing process
- Use characteristics of good writing
- Use figurative language to describe characters
- Apply a variety of strategies for word study

MATH

Number and Operations

- Understand place value through billions

FIFTH GRADE MATH Continued

- Be proficient in counting money and making change
- Develop and use number sense for whole numbers, fractions and decimals
- Develop and apply number theory concepts, e.g. multiples, primes and factors in real world and mathematical situations
- Determine pairs of numbers given a relation or rule, and determine the relation or rule of given pairs of numbers
- Understand how basic mathematical operations are related
- Develop, analyze and explain procedures for computation and techniques for estimation
- Select appropriate methods and tools for computing with whole numbers, fractions and decimals from among mental computation, estimation, calculator and paper/pencil
- Round whole numbers to the designated place value
- Identify and generate equivalent forms of fractions, decimals and percents
- Recognize, model and describe multiples, factors, composites and primes
- Determine the greatest common factor (GCF) and least common multiple (LCM) of two numbers
- Convert fractions to the least common denominator (LCD)
- Reduce fractions to simplest form (lowest terms)
- Add and subtract time using renaming

Algebra

- Graph linear equations with one variable
- Use calculators, computers, tables and graphs to develop and interpret patterns
- Understand and use formulas
- Develop skill in solving and writing linear equations using informal and formal methods
- Investigate inequalities and nonlinear equations
- Apply order of operation rules

FIFTH GRADE MATH Continued

Geometry

- Learn the relationship between radius and diameter
- Classify angles according to the measure
- Identify and select appropriate units to measure angles (degrees)
- Understand and use linear, square and cubic units
- Count faces, vertices and edges
- Create perspective drawings
- Describe ray, segment, interior and exterior of an angle
- Recognize and create patterns with tessellations

Measurement

- Identify the paths between points on a grid or coordinate plane and compare the lengths of the paths, e.g. shortest path, paths of equal lengths
- Demonstrate and describe the difference between covering the faces (surface area), and filling the interior (volume), of 3-dimensional objects
- Use standard angles (45° , 90° , 120°) to estimate the measure of angles and use a protractor to measure and draw angles
- Convert one metric unit to one customary unit and one customary unit to one metric unit
- Understand that measurement is not exact, e.g. when measured multiple times, measurements may give slightly different numbers
- Understand and explain how differences in units affect precision
- Measure length to the nearest cm and $\frac{1}{8}$ of an inch

Data Analysis and Probability

- Collect and organize data, then determine appropriate method and scale to display data
- Find the mean, median, mode and range of a given set of data and use these measures to describe the set of data

FIFTH GRADE MATH Continued

- Use calculators to simplify computations and use computers to assist in generating and analyzing information
- Sample and analyze data, making predictions and conjectures based on samples
- Distinguish between a population and a sample
- Discuss the reasonableness of the data and the results
- List all possible outcomes of an event
- Read, construct and interpret frequency tables
- Make predictions based on experimental and theoretical probabilities

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 wellbeing

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

FIFTH GRADE PHYSICAL EDUCATION Continued

- 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

FIFTH GRADE PHYSICAL EDUCATION Continued

- 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

Physical: Energy Waves (Electromagnetic Spectrum, Heat, Light, Mirrors/Lenses, Sound, Waves)

- Identify, describe and compare different types of wave energy

FIFTH GRADE SCIENCE Continued

- Describe the organization of the electromagnetic spectrum and the uses/applications of each type of electromagnetic wave
- Compare electromagnetic (heat, light, radio) waves and mechanical (sound, water) waves
- Explore characteristics of heat, light, and sound
- Compare and contrast types of mirrors and lenses
- Define a wave and describe characteristics and features of waves

Life: Cells, Classification/Behavior, Fish

- Describe, explain and compare the structure and function of cells
- Identify the characteristics of living things
- Use the standard classification system to group animals based on their characteristics
- Identify features of fish that distinguish them from other classes of animals

Earth: Oceanography, Meteorology: Air Pressure, Climate, Earth's Atmosphere, Water Cycle, etc.

- Describe the physical structures of and ecosystems present in the ocean
- Study currents, tides and waves
- Explain air pressure and local/global winds, how they are measured and their effects on weather
- Distinguish between climate and weather and identify factors that affect climate
- Describe Earth's atmospheric layers and the "greenhouse" effect
- Explain the water cycle and its relationship to weather and climatic patterns

Health: Reproductive System, Mental/Emotional Health

- Explain human reproduction and development

FIFTH GRADE SCIENCE Continued

- Identify the physical, emotional, intellectual and social changes that occur at puberty
- Describe God's plan for human sexual behavior
- Know ways to seek assistance if worried, abused or threatened
- Recognize how mood changes and strong feelings affect thoughts and behavior, and how they can be managed successfully
- Describe how personality, relationships and self-concept affect mental and emotional 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 – 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.

FIFTH GRADE SOCIAL STUDIES Continued

American History: Native People – 1860 (Native People, Exploration/Colonization, Pre-Independence Movement, American Revolution, Territorial Expansion – 1801-1861, Westward Expansion, Current Events)

- Understand God's ultimate control and protection over human affairs
- Describe the relationships between key people/groups, events and cultures in U S History
- Know causes and effects of key influences/events and be able to place them on a time line
- Understand and interpret key events and issues in United States history around commonality and diversity, continuity and change, conflict and cooperation, individualism and interdependence, interaction within different environments
- Interpret major events, issues and developments involved in making a new nation within the following topical areas: Land and people before Columbus, Age of Exploration, Settling the Colonies, War of Independence and Westward Expansion
- Understand the role and work of the Adventist Church in North America

Civics

- Understand how participation in government affects citizen life e.g. check and balances
- Understand the constitution of the United States and how it affects one's life
- Know how the constitution protects the rights of individuals
- Know the importance of Christian citizenship and cultural diversity
- Understand socially acceptable ways of participation in activities to achieve group goals

FIFTH GRADE SOCIAL STUDIES Continued

Geography

- Prepare, examine and interpret charts and maps that show key geographic information such as population, climate, natural resources, movement
- Locate and identify the continents of the world, the fifty states and the major cities of the United States
- States and major physical features of North America
- Identify patterns of migrations and cultural interactions in the United States
- Understand the effects of weather/climate on migration patterns
- Understand how physical and human activity (e.g. pollution, deforestation, flood plains) has impacted changes in physical environment

Economics

- Understand responsibilities of Christian stewardship in a global economy
- Understand that all economic choices have costs and benefits
- Know the differences between needs and wants and their relationship to economic tradeoffs
- Understand how supply/demand and price increase/decrease influence consumers and the economy
- Identify economic systems and terms e.g. capitalism, inflation, free enterprise

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

FIFTH GRADE TECHNOLOGY Continued

- 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

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

