

Curriculum Guides: FIFTH GRADE 2011-2012

BIBLE

Text: Dillon, S. P. (2000). *Michael Asks Why*. Nampa, ID: Pacific Press.

- Learn the 10 Commandments
- Learn the books of the Old and New Testament
- Understand changes the early Christians made
- Understand the role of the earthly and heavenly sanctuary
- Understand the significance the reformation has for us today
- Learn about Martin Luther, John Huss, and other reformers who stood up for their beliefs
- Understand the significance of the Great Disappointment- 1844
- Learn about signs of Jesus' 2nd Coming
- Understand that God created humanity with the power of choice
- Recognize the importance of showing kindness toward and acceptance of people who are different
- Recognize that as the Holy Spirit works in lives of people, people become more and more like Jesus and will reflect His love and goodness to others
- Understand that God continues to offer the gift of salvation
- Understand the importance of daily commitment to God and relying on His power for a victorious life

FINE ARTS

Art

- 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

- 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

Text:

Beers, J., Cramer, R., & Hammond, D. (2000). *Everyday Spelling*. New York: NY: Scott Foresman.

Booth, B. (2006). *Shepherd Warrior*. Nampa: ID: Pacific Press.

Cleary, B. (1973). *Socks*. New York: NY: HarperCollins Publisher.

Graham-Kennedy, E. (2006). *Where Did They Come From...Dinosaurs...and Where Did They Go?* Nampa: ID: Pacific Press.

Jackson, D., & Jackson, N. (1992). *Spy for the Night Riders*. Minneapolis: MN: Bethany House Publishers.

Kehret, P. (1996). *Small Steps: The Year I Got Polio*. Morton Grove: IL: Albert Whitman & Company.

Naidoo, B. (1986). *Journey to Jo'burg*. New York: NY: Harper Trophy.

Nixon, J. L. (1987). *A Family Apart*. New York: NY: Bantom Doubleday Dell Books for Young Readers.

Toth, M. D., Ragno, N. N., & Gray, B. G. (1996). *World of Language*. Needham: MA: Silver Burdett Ginn.

Extended Reading and Writing

- Read to obtain information
- Use decoding and context to read
- Use the writing process
- Write expository papers
- Edit spelling, grammar, and punctuation
- Recognize and read grade-appropriate sight words
- Write a picture book
- Write for various purposes and audiences
- Write using story elements

Comprehending, Studying, and Evaluating Ideas

- Write paragraphs with main ideas and details
- Retell or take notes on narratives using story plans
- Determine meaning of unfamiliar words and phrases
- Develop two-column notes and charts
- Identify bias in visual, auditory, and literary works
- Discern between good and evil, real and imaginary, fact and opinion
- Use graphic organizers
- Evaluate by opinion-proof notes and persuasive paragraphs
- Analyze author's craft
- Analyze story elements
- Synthesize information from multiple, reliable resources
- Analyze main ideas of print and visual media
- Write summaries
- Develop discriminatory skills

Reference Skills

- Use library references
- Use reference resources

Word Study

- Read, spell, and write words with short and long vowels
- Correctly spell grade-appropriate words
- Read, spell, and write homophones
- Read, spell, and write common contractions
- Read, spell, write, and define easily confused words
- Read, spell, and write compound words

Sentence Skills

- Identify the subject and predicate in a sentence
- Identify and use conjunctions
- Recognize fragments and run-on sentences; combine short, related sentences
- Identify and use grade-appropriate punctuation
- Write sentences, paragraphs, and stories
- Edit for usage
- Identify action verbs
- Identify and use correct verb tense
- Identify and use adjectives
- Identify and use proper nouns
- Identify and use proper adjectives
- Identify and use adverbs
- Capitalize and punctuate abbreviations

MATH

Text: Maletsky, E. M., & McLeod, J. (2009). *HSP Math*. Orlando: FL: Harcourt Inc.

Number and Operations

- Understand place value through billions
- 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

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
- 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 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 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
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

Text: Ritterskamp, R. W., & Wyrick, D. J. (1994). *Discover God's World*. Nampa: ID: Pacific Press.

Life: Living Things

Describe, explain and compare the structure and function of cells
Identify the characteristics of living things and non-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
Identify the main characteristics of birds, reptiles, amphibians, and mammals and how these characteristics affect the behavior and function of the animal
Compare the different behaviors of animals e.g., innate, learned, cyclic, social

Health: Personal Mental Health, Interpersonal Human Health, Human Sexuality

Describe how personality, relationships and self-concept affect mental and emotional health
Define stress including its positive and negative aspects and how stress relates to decision making
Identify factors that influence how friends are chosen and the impact of friends on peer pressure
Know ways to seek assistance if worried, abused or threatened
Explain human reproduction and development
Identify the physical, emotional, intellectual and social changes that occur at puberty
Describe God's plan for human sexual behavior

Physical: Heat, Energy Waves, Sound, Light

Describe the relationship between heat and the kinetic theory of matter
Identify, describe, and compare different types of wave energy including electromagnetic and mechanical
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, sound and light (including color)
Compare the function of simple optical devices

Earth: Meteorology, Oceanography

Define meteorology, and the purpose of various weather instruments
Describe how clouds are formed
Identify characteristics of different storms
Distinguish between climate and weather and identify factors that affect climate
Describe Earth's atmospheric layers and the "greenhouse" effect
Explain air pressure and local/global winds, how they are measured and their effects on weather
Explain the water cycle and its relationship to weather and climatic patterns
Describe the physical structures of and ecosystems present in the ocean
Explain currents, tides, ocean waves and ocean water composition
Identify resources available from the sea and how humans affect the ocean ecology

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/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

Text: Banks, J. A., Beyer, B. K., Contreras, G., Craven, J., Ladson-Billings, G., McFarland, M. A., et al. (1997). *United States: Adventures in Time and Place*. New York: NY: Macmillan McGraw-Hill.

Fifth grade will study the development of the United States as a nation through the ravages of the Civil War.

The Arrival of Europeans to 1610:

- Trace the routes of major European explorers
- Identify the founders and study how the colonies grew

Colonization and Settlements (1607 to 1763):

- Explain reasons for the movement of people from Europe to the Americas
- Describe the impact of exploration and settlement on native Indians
- Explain the causes, conditions, and consequences, of the French and Indian War
- Investigate biblical prophecies about the founding of the United States
- Understand the importance of religious freedom

The American Revolution (1763 to 1783):

- Identify the causes of the American Revolution
- Evaluate contributions of women during the American Revolution

Making the United States Constitution and Establishing the Federal Republic (1783 to 1800's):

- Discuss the United States Constitution
- Discuss the Bill of Rights

Geography

Maps, Globes, and Graphics:

- Demonstrate the understanding of latitude and longitude
- Demonstrate how maps are used to portray specific information
- Learn the continents and their locations
- Recognize the four hemispheres of the Earth
- Learn the names and locations of the countries of the world

Places:

- Name and locate major regions, rivers, mountain ranges, drainages, and the continental divides of North America
- Understand and explain voluntary and involuntary reasons for human migration.

Individuals, Society, and Culture

Individual:

- Understand the importance of developing a personal relationship with Christ
- Identify the qualities that make individuals unique and their place in God's overall plan

Society:

- Identify customs and traditions of the various cultural groups that have contributed to the American way of life
- Discuss the impact of prejudice on society

Culture:

- Recognize the impact of immigration on cultural diversity

Mission/Outreach:

- Recognize the church's efforts to alleviate social problems

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