

KEY LEARNINGS: BIBLE CHART

2003-2005

K	<ul style="list-style-type: none"> • The Bible tells about God • Unity in the Trinity • God is the creator • Sin and Gods' plan for salvation • Following Christ each day • Spreading the news of Salvation 	<ul style="list-style-type: none"> • Commitment to God • Spiritual gifts in Bible characters • Freedom to choose • Importance of prayer and praise • Spirit of thankfulness • Jesus' return
1	<ul style="list-style-type: none"> • Understanding God through Bible study • Ministry of the Trinity • God worthy of adoration and trust • God's love and care as creator • Adam and Eve with God before Fall 	<ul style="list-style-type: none"> • Eternal death result of sin • Spiritual gifts of OT characters • SDA church beginnings • Being active witnesses for Jesus • Jesus reuniting His children
2	<ul style="list-style-type: none"> • Bible organization • Bible lessons in daily life • God's characteristics • Godhead as creators • Adam and Eve's relationship with God • Jesus' birth, death and resurrection • Free gift of salvation 	<ul style="list-style-type: none"> • Forgiveness and sins' consequences • Spiritual gifts • Consistent prayer • Trust God for all needs • Worship and obedience • Preparing for Christ's return • Resurrection
3	<ul style="list-style-type: none"> • Daily scripture study • Roles of the trinity • God and angels before sin • Conflict between God and Satan • Eternal death; raising the de • Jesus as Messiah, Savior and Redeemer 	<ul style="list-style-type: none"> • Christian's responsibility to witness • Acceptance of all people • God's church throughout history • Spiritual gifts • Grace • Jesus' return
4	<ul style="list-style-type: none"> • Bible's message to humanity • Bible structure and divisions • Fruit of the Spirit • Acceptance of salvation • Faith in Jesus • Service for God 	<ul style="list-style-type: none"> • Spiritual gifts of NT characters • Developing a Christ-like character • Worship • Accepting God's love and forgiveness • Responding to God's gift of salvation
5	<ul style="list-style-type: none"> • Gift of salvation • God's character revealed through His laws • Power of choice • Covenant relationship • Daily commitment to God 	<ul style="list-style-type: none"> • God's remnant people • Spiritual gifts • Communication with God • The Sanctuary
6	<ul style="list-style-type: none"> • The Bible reveals God • Bible aides • God's presence and power • Heaven's relationship to Jesus' life on earth • The great controversy and the plan of salvation 	<ul style="list-style-type: none"> • Accepting Jesus • Baptism • Sharing the Gospel • Early Christian church
7	<ul style="list-style-type: none"> • God's nature in scriptures • Plan of salvation • God as creator • The flood • Existence of pain and suffering • Chosen people through Abraham's family 	<ul style="list-style-type: none"> • A written law and the OT desert sanctuary • Rejection of God • Life of Jesus • Early church history • The sanctuary and the Second Coming
8	<ul style="list-style-type: none"> • The Bible, inspired and preserved • Trinity characteristics • Relationship with Jesus 	<ul style="list-style-type: none"> • SDA beliefs • Relationships with others based on Christian values • Christian principles

KEY LEARNINGS: FINE ARTS CHART

2003-2005

Music

K	<ul style="list-style-type: none"> • Steady beat • Quarter notes • Echo singing • Sing with instrumental accompaniment 	<ul style="list-style-type: none"> • Verse vs chorus • Listen to band and orchestra music • Sing scripture songs and hymns
1	<ul style="list-style-type: none"> • Steady beat • Quarter and half notes • Write note heads • Pitched and un-pitched instruments • Sing with simple accompaniment patterns 	<ul style="list-style-type: none"> • AB pattern • Differences in tones of human voices • Identify band instruments • Hymns of praise
2	<ul style="list-style-type: none"> • Write notes and rests • Posture and breathing • ABA pattern • Changes in tempo and dynamics 	<ul style="list-style-type: none"> • Identify stringed instruments • Listen to classical music • Locate hymns by page numbers
3	<ul style="list-style-type: none"> • Eighth notes and rests • Major and minor tonality • Introduction, interludes and codas • AABB and AABA patterns 	<ul style="list-style-type: none"> • <i>p, mp, mf</i> and <i>f</i> • Solo voices • Music styles from different countries • Use of hymnal index
4	<ul style="list-style-type: none"> • Read meter signatures (2/4, 3/4, 4/4) • Staff, treble clef and measure • Secular and sacred music • Rondo form (ABACA pattern) • Ritardano, accelerando, allegro and andante 	<ul style="list-style-type: none"> • Affect of legato and staccato on music performance • Nationalistic and patriotic music • Overture • Parts of the hymnal page
5	<ul style="list-style-type: none"> • Names of lines and spaces of bass clef • Sharp, flat and natural symbols • Sight-read musical phrase • <i>D.C. al fine</i> 	<ul style="list-style-type: none"> • Symbols and meanings for ritardando, accelerando, crescendo, decrescendo and diminuendo • Baroque music • Names of hymn writers
6	<ul style="list-style-type: none"> • C major scale • Sound of major scale • Sight-read simple song • Cadence • First and second endings 	<ul style="list-style-type: none"> • Canon form • Symbols and meanings for fermata and tenuto • Compare tone qualities of orchestral music from different cultures • Early Advent hymns
7	<ul style="list-style-type: none"> • Meter changes • History of notation • Sound of minor scale • Sight-read two-part song • Bridge 	<ul style="list-style-type: none"> • Rubato • Music of Eastern cultures • Hymns of Adventist heritage • Historical development of SDA hymnals
8	<ul style="list-style-type: none"> • Irregular meter patterns (5/4, 7/4) • Major key signatures • Sing a complex two-part song • Music enhancement with computers 	<ul style="list-style-type: none"> • Music of Renaissance period • Indexes in the SDA hymnal • Modulation and symphonic form

Art

Consult the *NAD Fine Arts Curriculum Guide* for suggested activities.

K - 4	<ul style="list-style-type: none"> • Different media, techniques and processes • Visual characteristics and purposes of art • Subject matter, symbols and ideas to communicate meaning 	<ul style="list-style-type: none"> • History and specific relationships to various cultures • Art as belonging to particular cultures, times and places • People's experiences influence development of specific artworks • Connections between the visual arts and other disciplines
5 - 8	<ul style="list-style-type: none"> • Effective media, techniques and processes • Organizational structures in the communication of ideas • Subjects, themes and symbols that demonstrate knowledge of contexts, values and aesthetics 	<ul style="list-style-type: none"> • Art objects in historical and cultural context • Factors of time and place influence visual characteristics of art • Individual responses to personal art and artworks from various eras and cultures • Interrelatedness of other disciplines with the visual arts

KEY LEARNINGS: LANGUAGE ARTS CHART

2003-2005

Receptive and Expressive Languages: Reading, Writing, Viewing, Visually Representing, Listening, and Speaking

	Reading	Writing
K	<ul style="list-style-type: none"> • Phonemic awareness • Explicit systematic phonics • Pre-reading concepts • Concepts of print 	<ul style="list-style-type: none"> • Picture/Word Connections • Recognize print tells the story
1	<ul style="list-style-type: none"> • Phonemic awareness • Explicit systematic phonics • Share what is read • Recognize sight words 	<ul style="list-style-type: none"> • Context clues
2	<ul style="list-style-type: none"> • Apply phonics elements • Decode words in isolation • Know story elements • Vocabulary strategies 	<ul style="list-style-type: none"> • Comprehension strategies • Increase reading speed
3	<ul style="list-style-type: none"> • Use phonetic clues to spell • Use dictionary/glossary • Read narrative and expository text 	<ul style="list-style-type: none"> • Read fiction and nonfiction • Read with expression • Summarize text
4	<ul style="list-style-type: none"> • Decode words • Use punctuation clues • Understand author's purpose • Adjust reading speed 	<ul style="list-style-type: none"> • Identify figurative language • Recognize word origins and derivations • Use thesaurus
5	<ul style="list-style-type: none"> • Read independently • Use encyclopedia, card catalog, and electronic devices • Use abstract vocabulary 	<ul style="list-style-type: none"> • Skim/Scan • Compare/Contrast
6	<ul style="list-style-type: none"> • Adapt pace and technique for purpose • Recognize devices for author's purpose 	<ul style="list-style-type: none"> • Recognize and determine non-standard usages; e.g. images, slang, and dialect • Read for comprehension and application
7	<ul style="list-style-type: none"> • Increase vocabulary across subjects • Use reading for communication • Consult sources 	<ul style="list-style-type: none"> • Choose appropriate word meaning
8	<ul style="list-style-type: none"> • Develop study skills • Predict • Clarify • Question 	<ul style="list-style-type: none"> • Summarize • Apply

Viewing	Visually Representing	Listening	Speaking	
<ul style="list-style-type: none"> View pictures Predict from pictures Answer questions Share thoughts Sequencing 	<ul style="list-style-type: none"> Experiment with visual forms Model presentations 	<ul style="list-style-type: none"> Eye contact Follow directions Take turns speaking Listen to various media 	<ul style="list-style-type: none"> Simple conversation rules Share information 	K
<ul style="list-style-type: none"> Picture clues Compare/contrast Realize media messages Discern characteristics 	<ul style="list-style-type: none"> Develop informational visual media Connect information with personal experience 	<ul style="list-style-type: none"> Stay on topic Listen attentively Summarize 	<ul style="list-style-type: none"> Retell familiar stories Recitations 	1
<ul style="list-style-type: none"> State main idea Identify point of view Understand content 	<ul style="list-style-type: none"> Produce visual media Demonstrate understanding 	<ul style="list-style-type: none"> Posture Feedback to speaker Ask/answer questions Determine listening purpose 	<ul style="list-style-type: none"> State main idea and details Ask questions 	2
<ul style="list-style-type: none"> Analyze information Summarize Know visual media formats 	<ul style="list-style-type: none"> Organize and group information Show main idea and supporting details 	<ul style="list-style-type: none"> Do not interrupt speaker Know how literature uses sounds 	<ul style="list-style-type: none"> Monitor voice quality Express ideas logically Use facial expressions and gestures 	3
<ul style="list-style-type: none"> View with discernment Question to clarify Visual media influence 	<ul style="list-style-type: none"> Communicate context Demonstrate specific information Model decision-making skills 	<ul style="list-style-type: none"> Respect other's ideas Identify false information Use across curriculum Identify persuasive messages 	<ul style="list-style-type: none"> Utilize notes and memory aids Make connections and transitions 	4
<ul style="list-style-type: none"> Interpret impressions Similarities/Differences Use electronic devices 	<ul style="list-style-type: none"> Techniques to create mood Similarities/differences in presentations 	<ul style="list-style-type: none"> Interpret topic, purpose, and perspective Use in group settings Take notes Draw inferences 	<ul style="list-style-type: none"> Use oral language skills Cooperative group discussions Persuasive messages 	5
<ul style="list-style-type: none"> Scan Define and interpret literary forms 	<ul style="list-style-type: none"> Support opinion Compare/Contrast Design media for interview Media effect on events 	<ul style="list-style-type: none"> Adapt listening strategies Analyze presentations Multi-step instructions 	<ul style="list-style-type: none"> Adapt oral language to settings Use verbal and nonverbal techniques 	6
<ul style="list-style-type: none"> Types of media effect on coverage Draw conclusions Make inferences 	<ul style="list-style-type: none"> Note-taking Clarify ideas Construct media to support presentation 	<ul style="list-style-type: none"> Listen with an open mind Discern accuracy and validity of message 	<ul style="list-style-type: none"> Identify speaking strategies Elaborate and clarify ideas Use correct vocabulary 	7
<ul style="list-style-type: none"> Evaluate literary forms Media production and distribution Cause and effect Use figurative language 	<ul style="list-style-type: none"> Careers in visual media Model types of visual media 	<ul style="list-style-type: none"> Analyze presentations for purpose Analyze propaganda and argumentation 	<ul style="list-style-type: none"> Nonprint media impact Be assertive, but polite Develop specific oral presentations 	8

KEY LEARNINGS: MATHEMATICS CHART

2003-2005

Standards of problem solving, reasoning, communications and representation are embedded in the teaching of the standards listed below.

	Number and Operations	Algebra	Geometry	Measurement	Data Analysis and Probability
K	<ul style="list-style-type: none"> Count to 20 Write 0 to 10 1-1 correspondence Add to 10 Subtract to 10 	<ul style="list-style-type: none"> Classification of objects Sort by time, size, numbers, etc. Compare and contrast objects Manipulatives to model problem 	<ul style="list-style-type: none"> Compare by size, color, shape Identify triangles, squares, circles Describe position in space Fit puzzle pieces 3-dimensional objects 	<ul style="list-style-type: none"> Weight and capacity Length, size, distance, temperature Use of thermometer Order events by time Clocks, watches, calendars Time to hour Days of week 	<ul style="list-style-type: none"> Events as likely/unlikely
1	<ul style="list-style-type: none"> Count, write 0 to 100 Count by 2's, 5's, 10's, 25's to 100 Skip count by 10's, e.g. 17, 27... Place value of tens and ones Fractions: $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{8}$ 	<ul style="list-style-type: none"> Patterns Relationships Regularities Number lines and number sentences 	<ul style="list-style-type: none"> Geometric terms and shapes Symmetry 	<ul style="list-style-type: none"> Time to hour and half-hour Estimation and measures Standard and metric Coins to \$1.00 	<ul style="list-style-type: none"> Analysis of data Predicted and actual outcomes Probability
2	<ul style="list-style-type: none"> 3-digit numbers Skip count by 2's, e.g. 23, 25, 27... Ordinals 1-20 Even and odd numbers Place value: hundreds, tens, ones Fact families + and - facts to 20 by recall + and - 2-digit, and 3-digit + 3 numbers Round to nearest 10 Write, + and - money 	<ul style="list-style-type: none"> Patterns to make generalizations, predictions Patterns in tables and graphs Equivalence concepts using symbols 	<ul style="list-style-type: none"> 2- and 3- dimensional shapes Simple coordinates Prisms, pyramids, cylinders and cones Relate geometry to number and measurement 	<ul style="list-style-type: none"> Measuring tools Units of measure Weight and capacity Tell time; A.M. and P.M. Coins and dollars to \$5.00 Change to \$1.00 Days, dates on calendar Week before, after on calendar 	<ul style="list-style-type: none"> Simple bar graph Simple table and chart Predictions and validity Probability study with 50/50 chance
3	<ul style="list-style-type: none"> Place value to 10,000 Number lines Skip count by 3's, e.g. 15, 18, 21... Commutative property of + and x Zero property of x Decimal point Tenths written as a decimal x and ÷ fact families + and - 4-digit x mentally by 10 and 100 x and ÷ 2-digit by 1-digit Fractions Simple mixed numbers + and - fractions with like denominators + and - money Estimate number computations 	<ul style="list-style-type: none"> Patterns Equations and inequalities Solve equations and inequalities Commutative and associative properties Grouping symbols 	<ul style="list-style-type: none"> Congruence and similarity Perimeter Count to find area and volume 2-dimensional objects 2- and 3- dimensional terms Label grid or coordinate system Tangrams 	<ul style="list-style-type: none"> Measurement vocabulary Temperature Simple time line Metric and US units Money to \$10.00 Tell time to the minute Calendar: day, week, month, year Weeks before and after on a calendar 	<ul style="list-style-type: none"> Line graphs Graphs from a table Patterns in tables and graphs Data collection
4	<ul style="list-style-type: none"> Place value to 1,000,000 Numbers between zero and one Decimals to the hundredths Equivalents in counting money x and ÷ relationship Remainder in division x and ÷ to 12 by recall ÷ using 1-digit divisor x two 2-digit numbers Simple equivalent fractions Improper fractions, mixed numbers Estimate solutions Concept of LCM and GCF Reduce simple fractions 	<ul style="list-style-type: none"> Table of values Change in variables Distributive property Predictions using numerical and non-numerical patterns 	<ul style="list-style-type: none"> Points, lines, planes Positions on a grid Coordinate systems Line symmetry 3-dimensional objects Area of rectangle Similarities and differences of quadrilaterals 	<ul style="list-style-type: none"> Length to nearest $\frac{1}{4}$ inch Multi-step problems Perimeter of irregular shapes Simple time line Time zones and timetables Celsius and Fahrenheit Equivalent measures for metric and customary units 	<ul style="list-style-type: none"> Tables and graphs using different scales Circle graphs Probability experiments Venn diagrams Data collection

	Number and Operations	Algebra	Geometry	Measurement	Data Analysis and Probability
5	<ul style="list-style-type: none"> Place value to billions Count money and make change Whole numbers, fractions, decimals Number theory concepts Pairs of numbers Estimation and computation Round whole numbers Equivalent fractions, decimals, percents Multiples, factors, composites, primes GCF and LCM of two numbers Reduce and convert fractions + and – time 	<ul style="list-style-type: none"> Graph linear equations Interpret patterns Algebra formulas Linear equations Inequalities and nonlinear equations 	<ul style="list-style-type: none"> Radius and diameter Angles Linear, square and cubic units Faces, vertices and edges Perspective drawings Ray, segment, interior and exterior of an angle Patterns with tessellations 	<ul style="list-style-type: none"> Grid and coordinate plane 3-dimensional objects Measure of angles Convert metric Measure length 	<ul style="list-style-type: none"> Collect and display data Mean, median, mode and range Calculators and computers Predictions and conjectures based on samples Population and sample Outcomes of an event Frequency tables
6	<ul style="list-style-type: none"> Exponents Associative property of + and x Whole number operations to fractions, decimals, percents and mixed numbers Divisibility rules Round decimals to nearest 1,000ths Ratio, percent and percentage Improper fractions, mixed numbers and decimal fractions +, -, x and ÷ integers Prime factorization and factor trees Convert fractions to decimals to percents Convert fractions to terminating, repeating or rounded decimals Remainder as a fraction or decimal Find the percent of a number 	<ul style="list-style-type: none"> Linear equations Two-step operations Solve inequalities Use a rule to determine a missing number Compare integers 	<ul style="list-style-type: none"> Geometry vocabulary Area of triangles and parallelograms Circumference and area of circles Volume and surface areas of prisms Classify triangles Parallel, intersecting and perpendicular lines Use protractor Fractal patterns Geometric construction 	<ul style="list-style-type: none"> Changed dimensions of a figure Formulas - circumference, area of circles and sectors Conversions within the same measurement system Indirect measurement 	<ul style="list-style-type: none"> Calculate probability Multiple line graph Logical inferences from statistical data Calculate the odds Test a theoretical probability Construct a scatter plot Organized lists and tree diagrams
7	<ul style="list-style-type: none"> Scientific notation Negative and zero exponents Integers, rational and irrational numbers Additive inverse property Distributive property Properties of operations Proportions to solve problems Squares and square roots Percent of increase and decrease 	<ul style="list-style-type: none"> Ratios, proportions, averages and percentages Graph inequalities Formula used in problem solving Laws of exponents Pythagorean Theorem Simple polynomials 	<ul style="list-style-type: none"> Area of a trapezoid Cylinder surface area Geometric solid volume Transformations Angle measures in triangle Complementary, supplementary and vertical angles Scale diagrams 	<ul style="list-style-type: none"> Convert between standard and metric measures Ratios to solve problems Scale models Ancient monetary values Proportionate time line Formulas for volume and surface areas of solids Time zones 	<ul style="list-style-type: none"> Permutations Predictions Multiple bar graph Circle graphs Histogram Stem and leaf plot
8	<ul style="list-style-type: none"> Digits in calculations Irrational numbers Real numbers, set notation and set operations 	<ul style="list-style-type: none"> Matrices Slope and intercept Values Arithmetic and geometric sequences Variables Linear or nonlinear properties in tables, graphs and equations 	<ul style="list-style-type: none"> Surface area of various geometric shapes Volume of spheres Geometric properties Sine, cosine and tangent 	<ul style="list-style-type: none"> Interior and exterior angles Digits in calculations Convert Fahrenheit and Celsius 	<ul style="list-style-type: none"> Combinations from a given set Box and whisker plot

KEY LEARNINGS: PHYSICAL EDUCATION CHART

2003-2005

	Spiritual Emphasis	Movement and Motor Skills	Lifestyle and Fitness	Sportsmanship and Appropriate Behaviors
K	<ul style="list-style-type: none"> • Healthy lifestyle, God's ideal • Principles that promote health • At-risk behaviors • Balance in work - leisure • Interaction of physical on the whole being 	<ul style="list-style-type: none"> • Progress in manipulative, locomotor and non-locomotor skills • Walking, running • Skip, strike • Beginning movement vocab • Apply concepts to performance 	<ul style="list-style-type: none"> • Daily physical activity • Exertion during free time • Fitness test • Physiological signs of moderate physical activity • Positive in participation • New movement activities and skills 	<ul style="list-style-type: none"> • Concepts of grace and forgiveness • Rules, procedures and safe practices • Share space and equipment • Interact regardless of personal differences
1-2	<ul style="list-style-type: none"> • Healthy lifestyle, God's ideal • Principles that promote health • At-risk behaviors • Balance in work and leisure • Interaction of physical on the whole being 	<ul style="list-style-type: none"> • Skipping, hopping, galloping and sliding • Motor patterns in simple combinations • Transitions between sequential motor skills • Adapt and adjust skills • Control traveling activities • Elements of basic patterns • Movement concepts • Feedback to improve performance 	<ul style="list-style-type: none"> • Pleasure in participation • Sustained physical activity • Physiological indicators of vigorous physical activity • Measure heart rate • Components of health-related physical fitness • Try new activities • Enjoy interaction through physical activity 	<ul style="list-style-type: none"> • Rules, procedures and safe practices • Follow directions • Work cooperatively • Play and cooperate with others regardless of personal differences • Treat others with respect • Resolve conflicts • Practice Christ-like principles
3-4	<ul style="list-style-type: none"> • Healthy lifestyle, God's ideal • Principles that promote health • At-risk behaviors • Balance in work and leisure • Interaction of physical on the whole being 	<ul style="list-style-type: none"> • Mature form in all locomotor patterns • Adapt a skill to unpredictable environment • Combine movement skills • Improve personal performance • Provide feedback to others 	<ul style="list-style-type: none"> • Improve skill and health • Benefits from regular physical activity • Personal health status • Fitness testing program • Enjoyment in activities • Increase skill competence • Interact while participating • Self-expression 	<ul style="list-style-type: none"> • Rules, procedures and etiquette • Safety principles • Work cooperatively • Work independently • Explore cultural/ethnic self awareness • Activities of national, cultural and ethnic origins
5-6	<ul style="list-style-type: none"> • Healthy lifestyle, God's ideal • Principles that promote health • At-risk behaviors • Balance in work and leisure • Interaction of physical on the whole being 	<ul style="list-style-type: none"> • Mature form in manipulative, locomotor, non-locomotor skills • Competence in specialized skills • Adapt and combine skills • Beginning strategies for net and invasion games • Improve performance • Movement patterns applied to games • Terms that describe basic movement • Offensive and defensive strategies 	<ul style="list-style-type: none"> • Regular participation • Personal interests to one's exercise behavior • Aspects of healthy lifestyle • Monitor exercise intensity • Cool-down and warm-up • Improvement of selected fitness components • Personal fitness goals • Physical fitness test • Positive opportunity for social/group interaction • Enjoyment in activities • Challenging experiences 	<ul style="list-style-type: none"> • Rules, procedures and etiquette • Goal in cooperative and competitive activities • Christ-like decisions • Utilize time effectively • Acknowledge differences in behaviors in groups • Work cooperatively with all peers
7-8	<ul style="list-style-type: none"> • Healthy lifestyle, God's ideal • Principles that promote health • At-risk behaviors • Balance in work and leisure • Interaction of physical on the whole being 	<ul style="list-style-type: none"> • Competence in variety of movement forms • Advanced movement and game strategies • Sport specific skills • High performance level • Advanced sport skill knowledge 	<ul style="list-style-type: none"> • Personal goals • Health-enhancing activities • New physical activities • Physiological indicators of exercise • Improve physical fitness • Physical fitness test • Enjoy participation • Social benefits • New and challenging activities 	<ul style="list-style-type: none"> • Apply God's help in dealing with peer pressure • Solve problems • Consequences with true competition • Achieve group goals • Supportive, inclusive, exclusionary behaviors • Willingly join others of diverse groups

KEY LEARNINGS: SCIENCE CHART

2003-2005

	Physical	Life	Earth	Health
K	<ul style="list-style-type: none"> • Simple Measurement • Observation • Light/Colors 	<ul style="list-style-type: none"> • Worms/Insects/Spiders 	<ul style="list-style-type: none"> • Air • Land • Water • Ecology • Seasons 	<ul style="list-style-type: none"> • Home/School Safety
1	<ul style="list-style-type: none"> • Electricity/Magnetism • Force/Motion <li style="padding-left: 20px;">Gravity • Energy/Work <li style="padding-left: 20px;">Simple Machines 	<ul style="list-style-type: none"> • Plants/Animals <li style="padding-left: 20px;">Biomes/Habitats • Life Cycles • Characteristics • Classification • Senses 	<ul style="list-style-type: none"> • Solar System <li style="padding-left: 20px;">Sun <li style="padding-left: 20px;">Earth <li style="padding-left: 20px;">Moon <li style="padding-left: 20px;">Seasons 	<ul style="list-style-type: none"> • Teeth, Eyes, Ears, Skin <li style="padding-left: 20px;">Care <li style="padding-left: 20px;">Basic Structure
2	<ul style="list-style-type: none"> • Matter <li style="padding-left: 20px;">Changes <li style="padding-left: 20px;">States • Energy Waves <li style="padding-left: 20px;">Heat 	<ul style="list-style-type: none"> • Amphibians/Reptiles • Insects • Human Body Systems 	<ul style="list-style-type: none"> • Geology <li style="padding-left: 20px;">Earth's Structure <li style="padding-left: 20px;">Dinosaurs/Fossils • Ecology <li style="padding-left: 20px;">Natural Resources 	<ul style="list-style-type: none"> • Home/ Community Safety • Emotions
3	<ul style="list-style-type: none"> • Electricity/Magnetism • Force/Motion <li style="padding-left: 20px;">Friction <li style="padding-left: 20px;">Gravity <li style="padding-left: 20px;">Inertia 	<ul style="list-style-type: none"> • Birds • Mammals • Classification 	<ul style="list-style-type: none"> • Meteorology <li style="padding-left: 20px;">Atmosphere <li style="padding-left: 20px;">Water Cycle <li style="padding-left: 20px;">Seasons <li style="padding-left: 20px;">Weather Elements • Space Exploration 	<ul style="list-style-type: none"> • Nutrition • Family Health Habits • Consumer Health
4	<ul style="list-style-type: none"> • Atomic Structure/Matter 	<ul style="list-style-type: none"> • Plants <li style="padding-left: 20px;">Classification <li style="padding-left: 20px;">Growth <li style="padding-left: 20px;">Photosynthesis <li style="padding-left: 20px;">Reproduction <li style="padding-left: 20px;">Structure/Function 	<ul style="list-style-type: none"> • Environmental Use <li style="padding-left: 20px;">Conservation/Ecology <li style="padding-left: 20px;">Pollution 	<ul style="list-style-type: none"> • Disease Prevention • First Aid • Community Health
5	<ul style="list-style-type: none"> • Energy Waves <li style="padding-left: 20px;">Electromagnetic Spectrum <li style="padding-left: 20px;">Heat <li style="padding-left: 20px;">Light <li style="padding-left: 20px;">Mirrors/Lenses <li style="padding-left: 20px;">Sound <li style="padding-left: 20px;">Waves 	<ul style="list-style-type: none"> • Cells • Classification/Behavior • Fish 	<ul style="list-style-type: none"> • Oceanography • Meteorology <li style="padding-left: 20px;">Air Pressure <li style="padding-left: 20px;">Climate <li style="padding-left: 20px;">Earth's Atmosphere <li style="padding-left: 20px;">Water Cycle <li style="padding-left: 20px;">Weather Elements 	<ul style="list-style-type: none"> • Reproductive System <li style="padding-left: 20px;">Human Sexuality • Mental/Emotional Health
6	<ul style="list-style-type: none"> • Electricity • Magnetism 	<ul style="list-style-type: none"> • Human Body Systems 	<ul style="list-style-type: none"> • Geology 	<ul style="list-style-type: none"> • Drug Effects • Decision Making • Nutrition
7	<ul style="list-style-type: none"> • Force/Motion • Energy/Work 	<ul style="list-style-type: none"> • Cell Theory • Genetics • Simple Animals 	<ul style="list-style-type: none"> • Astronomy 	<ul style="list-style-type: none"> • Transmission of Diseases • Sexuality
8	<ul style="list-style-type: none"> • Chemistry 	<ul style="list-style-type: none"> • Ecology <li style="padding-left: 20px;">Natural Resources • Plant Processes 	<ul style="list-style-type: none"> • Creation/Evolution • Interrelationships of Organisms 	<ul style="list-style-type: none"> • Health Risks • Community Health

EXTENDED KEY LEARNINGS: SCIENCE CHART

2003-2005

	Physical	Life	Earth	Health
K	Simple Measurement Observation Light/Colors	Worms/Insects/Spiders *Mammals (3) *Human Body Systems(2, 6) *Plants (4, 8) *Senses (1)	Air Land Water Ecology Seasons *Solar System (1,7)	Home/School Safety *Nutrition (3, 6) *Drug Effects (6)
1	Electricity/Magnetism Force/Motion Gravity Energy/Work Simple Machines	Plants/Animals Biomes/Habitats Life Cycles Characteristics Classification Senses	Solar System Sun Earth Moon Seasons *Ecology (2, 4, 8) *Meteorology (3, 5)	Teeth, Eyes, Ears, Skin Care Basic Structure *Drugs (6) *Nutrition (3, 6) *Safety (2)
2	Matter Changes States Energy Waves Heat	Amphibians/Reptiles Insects Human Body Systems *Birds (3) *Mammals (3) *Plant Classification (4)	Geology Earth's Structure Dinosaurs/Fossils Ecology Natural Resources *Climate (3,5)	Home/ Community Safety Emotions *Disease (4, 7) *Nutrition (3, 6)
3	Electricity/Magnetism Force/Motion Friction Gravity Inertia	Birds Mammals Classification *Biomes/Habitats (1) *Amphibians (2)/ *Reptiles (2) *Fish (5) *Insects (K, 2)	Meteorology Atmosphere Water Cycle Seasons Weather Elements Space Exploration	Nutrition Family Health Habits Consumer Health *Mental/Emotional Health (2, 5)
4	Atomic Structure/Matter *Energy Waves Heat (2, 5) Light (K, 5) Sound (5)	Plants Classification Growth Photosynthesis Reproduction Structure/Function	Environmental Use Conservation/Ecology Pollution *Geology (2, 6)	Disease Prevention First Aid Community Health
5	Energy Waves Electromagnetic Spectrum Heat Light Mirrors/Lenses Sound Waves	Cells Classification/Behavior Fish *Reptiles (2) *Amphibians (2) *Birds (K, 3) *Mammals (3) *Dinosaurs (2, 6, 8)	Oceanography Meteorology Air Pressure Climate Earth's Atmosphere Water Cycle Weather Elements	Reproductive System Human Sexuality Mental/Emotional Health
6	Electricity Magnetism	Human Body Systems	Geology	Drug Effects Decision Making Nutrition *Safety (2) *First Aid (4)
7	Force/Motion Energy/Work	Cell Theory Genetics Simple Animals	Astronomy	Sexuality Transmission of Diseases
8	Chemistry	Ecology Natural Resources Plant Processes *Plants (4) *Animal Behavior (5)	Creation/Evolution	Health Risks Community Health

*These topics **may** be introduced at this grade level. However, they are to be taught in depth at the grade level indicated in the parentheses.

KEY LEARNINGS: SOCIAL STUDIES - NPUC

2003-2005

	History	Civics	Geography	Economics
K Yourself	<ul style="list-style-type: none"> • Introduce calendar time • Holidays, traditions • Picture time line • God's plan • Family relationships • People: past, present 	<ul style="list-style-type: none"> • Safety rules • Individual roles in groups and government • Relationship: home, school, community • Diversity and Christian citizenship • Responsible decision making 	<ul style="list-style-type: none"> • Place of residence • Characteristics of where one lives: weather, topography 	<ul style="list-style-type: none"> • Community helpers • Transportation and communication • Stores and money value • Major services from community and government
1 Families	<ul style="list-style-type: none"> • Continue calendar time • God's plan • Family history & traditions • Families in history • National, cultural, religious holidays • History of American symbols 	<ul style="list-style-type: none"> • Safety rules • Individual roles in groups and government • Relationship: home, local, national • Diversity and Christian citizenship • Current local, national leaders • Responsible decision making 	<ul style="list-style-type: none"> • Maps, globes • Climate, weather • Natural resources 	<ul style="list-style-type: none"> • Stewardship • Community helpers • Goods, services • Family budget, earning, spending
2 Neighborhoods	<ul style="list-style-type: none"> • Time words, time lines • God's presence • Neighborhoods: past, present • Cultural holidays • SDA church contributions to one's neighborhood 	<ul style="list-style-type: none"> • Purposes of laws • Current leaders: local, national, global • Christian citizenship • Responsible decision making • Individual roles in groups and government 	<ul style="list-style-type: none"> • Classification according to climate, vegetation and landforms • Neighborhoods: community, state, country • Maps • Interrelationships: people and environment 	<ul style="list-style-type: none"> • Stewardship • Careers • Basic needs
3 Communities	<ul style="list-style-type: none"> • Time: years, decades, centuries • History and time lines • God's presence in your community • SDA contributions to communities • Local holidays and traditions • Community and historical figures • Development of communities: past and present 	<ul style="list-style-type: none"> • Community laws • Rights and property of others • Diversity and shared values • Rural, urban governments • Christian citizenship • Responsible decision making • Volunteerism 	<ul style="list-style-type: none"> • Maps, globes • Physical and human effects on places • Climate and weather effects on Earth's surface 	<ul style="list-style-type: none"> • Stewardship • Community needs • Community finances, businesses, services and government • Careers • Transportation and communication
4 State	<ul style="list-style-type: none"> • God's global plan, SDA church work • Time: centuries, BC/AD, time lines • State/Province history, traditions, holidays • Early settlers', Native people's influence in state history • Cultural influences 	<ul style="list-style-type: none"> • Power vs. authority • Purpose of laws • Diversity and shared values • State government and constitution • Christian citizenship • Responsible decision making • Volunteerism 	<ul style="list-style-type: none"> • Maps, globes, graphs • State charts, maps • State's characteristics: physical, human • Characteristics of US regions • Physical and human effects on places • Climate and weather effects on Earth's surface 	<ul style="list-style-type: none"> • Stewardship • Commerce, trade • Effects of production on environment • Economic choices due to limited resources • Natural resources • Technology's impact • Inventors, inventions • Careers

KEY LEARNINGS: SOCIAL STUDIES - NPUC

2003-2005

	History	Civics	Geography	Economics
5 United States Native People - 1860	<ul style="list-style-type: none"> • God's control, protection • Native people • Exploration & Colonization • Pre-Independence Movement • American Revolution • Territorial Expansion • Westward Expansion • Current Events 	<ul style="list-style-type: none"> • U.S. government • Christian citizenship • Cultural diversity 	<ul style="list-style-type: none"> • Maps, charts, graphs • Continents, states, capitals • Migration and cultural interaction • Weather/climate effects on migration • Physical and human effects on environment 	<ul style="list-style-type: none"> • Stewardship • Commerce, trade • Supply, demand • Economic choices
6 Ancient Civilizations	<ul style="list-style-type: none"> • God's involvement, guidance in History • Ancient Civilizations: India, Mesopotamia, Egypt, China • Americas: Incas, Mayas, Aztecs • Current Events 	<ul style="list-style-type: none"> • Forms of government • Reaching agreements through politics • Purposes of government • National/political divisions of the world • Citizenship around the world • Cultural diversity 	<ul style="list-style-type: none"> • Maps, globes, graphs, charts • World organization of countries • Ecosystems 	<ul style="list-style-type: none"> • Stewardship • Supply/demand • Commerce/trade • Effects & change from technology • Economic Systems
7 World History	<ul style="list-style-type: none"> • God's Plan in History • Middle Ages: Europe, Japan • Exploration, Colonization (Africa, Asia) • Renaissance, Reformation • Revolutions • Nationalism • 20th Century • Current Events 	<ul style="list-style-type: none"> • Sources, purposes and functions of law • Democracy • Principles of government • Citizenship • Comparison of political systems • Cultural diversity 	<ul style="list-style-type: none"> • Maps, globes, graphs • Interdependence of people and environment • Characteristics of world regions 	<ul style="list-style-type: none"> • Stewardship • Transportation & communication networks • Supply/demand • Commerce/trade • Economic Systems • Impact of technology • Careers
8 United States 1861- Present	<ul style="list-style-type: none"> • God's control, protection over human affairs • US Government and Constitution • Civil War, Reconstruction • Industrial Revolution • Global conflicts • US as a world power • Depression • Modern America • Current Events 	<ul style="list-style-type: none"> • Checks & balances • US political system & government • Constitution • Law making process • Christian citizenship 	<ul style="list-style-type: none"> • Maps, globes, charts • Populations • Environment • Patterns of human settlement • International relationships, Geographic role of US i • Geographic regions of the US 	<ul style="list-style-type: none"> • Stewardship • GNP • US role in global economy • Commerce, trade • Supply, demand • Economic systems • Impact of technology • Careers • Economic effects on career opportunities

KEY LEARNINGS: SOCIAL STUDIES - NAD

2003-2005

	History	Civics	Geography	Economics
K Yourself	<ul style="list-style-type: none"> • God's plan • Introduce calendar time • Holidays, traditions • Picture time line • Family relationships • People: past, present 	<ul style="list-style-type: none"> • Safety rules • Individual roles in groups and government • Relationship: home, school, community • Diversity and Christian citizenship • Responsible decision making 	<ul style="list-style-type: none"> • Place of residence • Characteristics of where one lives: weather, topography 	<ul style="list-style-type: none"> • Community helpers • Transportation and communication • Stores and money value • Major services from community and government
1 Families	<ul style="list-style-type: none"> • God's plan • Calendar time: days, months, years • Family history & traditions • Families in history • National, cultural, religious holidays • History of American symbols 	<ul style="list-style-type: none"> • Safety rules • Individual roles in groups and government • Relationship: home, local, national • Diversity and Christian citizenship • Current local, national leaders • Responsible decision making 	<ul style="list-style-type: none"> • Maps, globes • Climate, weather • Natural resources 	<ul style="list-style-type: none"> • Stewardship • Community helpers • Goods, services • Family budget, earning, spending
2 Neighbor- hoods	<ul style="list-style-type: none"> • God's presence • Time words, time lines • Neighborhoods: past, present • Cultural holidays • SDA church contributions to one's neighborhood 	<ul style="list-style-type: none"> • Purposes of laws • Current leaders: local, national, global • Christian citizenship • Responsible decision making • Individual roles in groups and government 	<ul style="list-style-type: none"> • Classification according to climate, vegetation and landforms • Neighborhoods: community, state, country • Maps, • Interrelationships: people and environment 	<ul style="list-style-type: none"> • Stewardship • Careers • Basic needs
3 Commun- ities	<ul style="list-style-type: none"> • God's presence • SDA contributions to communities Time: years, decades, centuries • History and time lines • Local holidays and traditions • Community and historical figures • Development of communities: past and present 	<ul style="list-style-type: none"> • Community laws • Rights and property of others • Diversity and shared values • Rural and urban governments • Christian citizenship • Responsible decision making • Volunteerism 	<ul style="list-style-type: none"> • Maps, globes • Physical and human effects on places • Climate and weather effects on Earth's surface 	<ul style="list-style-type: none"> • Stewardship • Community needs • Community finances, businesses, services and government • Careers • Transportation and communication
4 State	<ul style="list-style-type: none"> • God's global plan, SDA church work • Time: centuries, BC/AD, time lines • State/Province history, traditions, holidays • Early settlers', Native people's influence in state history • Cultural influences 	<ul style="list-style-type: none"> • Power vs. authority • Purpose of laws • Diversity and shared values • State government and constitution • Christian citizenship • Responsible decision making • Volunteerism 	<ul style="list-style-type: none"> • Maps, globes, graphs • State charts, maps • State's characteristics: physical, human • Characteristics of US regions • Physical and human effects on places • Climate and weather effects on Earth's surface 	<ul style="list-style-type: none"> • Stewardship • Commerce, trade • Effects of production on environment • Economic choices due to limited resources • Natural resources • Technology's impact • Inventors, inventions • Careers

KEY LEARNINGS: SOCIAL STUDIES - NAD

2003-2005

	History	Civics	Geography	Economics
5 United States	<ul style="list-style-type: none"> • God's control, protection • Native people • Exploration, colonization • Pre-Independence Movement • American Revolution • Territorial Expansion • Civil War, Reconstruction • Industrial Revolution • Global conflicts • US as a world power • Depression • Modern America • Current Events 	<ul style="list-style-type: none"> • Principles of government • U.S. Constitution • Christian citizenship • Cultural diversity 	<ul style="list-style-type: none"> • Maps, charts, graphs • Continents, states, capitals • Migration and cultural interaction • Weather/climate effects on migration • Physical & human effects on environment 	<ul style="list-style-type: none"> • Stewardship • Commerce, trade • Supply, demand • Economic choices
6 Ancient Civilizations	<ul style="list-style-type: none"> • God's involvement • Ancient civilizations • Middle Ages • Renaissance, Reformation • Exploration, colonization • Revolution, Independence, Nationalism • Canada and Latin America • 20th Century • Current Events 	<ul style="list-style-type: none"> • Forms of government • Purposes of government • National/political divisions of the world • Citizenship around the world • Cultural diversity 	<ul style="list-style-type: none"> • Maps, globes, graphs, charts • World organization of countries • Ecosystems 	<ul style="list-style-type: none"> • Stewardship • Supply, demand • Commerce, trade • Effects and change from technology • Economic systems
7 World History	<ul style="list-style-type: none"> • God's plan in history • Early civilizations • Classical civilizations • Middle Ages • Renaissance, Reformation • Exploration, colonization • Revolution, Independence, Nationalism • 20th Century • Current Events 	<ul style="list-style-type: none"> • Sources, purposes & functions of law • Democracy • Principles of government and citizenship • Political systems • Cultural diversity 	<ul style="list-style-type: none"> • Maps, globes, graphs • Interdependence of people and environment • Characteristics of world regions 	<ul style="list-style-type: none"> • Stewardship • Transportation and communication networks • Supply, demand • Commerce, trade • Economic systems • Impact of technology • Careers
8 United States	<ul style="list-style-type: none"> • God's control, protection • US Government and Constitution • Native people • Exploration, colonization • Pre-Independence Movement • American Revolution • Westward Expansion • Civil War, Reconstruction • Industrial Revolution • Global conflicts • US as a world power • Depression • Modern America • Current Events 	<ul style="list-style-type: none"> • Christian citizenship • Checks, balances • US political system & government based • Constitution and Bill of Rights • Citizens' rights and protection • Role, development & enforcement of laws • Affect of government's actions on US and world citizens • Cultural diversity 	<ul style="list-style-type: none"> • Maps, Globes, Charts • Populations • Environment • Patterns of human settlement • International relationships, Geographic role of US • Geographic regions of the US 	<ul style="list-style-type: none"> • Stewardship • GNP • US role in global economy • Commerce, trade • Supply, demand • Economic systems • Impact of technology • Careers • Economic effects on career opportunities

KEY LEARNINGS: TECHNOLOGY CHART

2003-2005

	Application	Communication	Economic Awareness	Ethics	Technology Solutions
K	<ul style="list-style-type: none"> • Computer care • Keyboarding basics • Word processing • Software use 	<ul style="list-style-type: none"> • Correct use of appropriate terms 	<ul style="list-style-type: none"> • Technology-related occupations 	<ul style="list-style-type: none"> • Courtesy and sharing of computer time 	
1-2	<ul style="list-style-type: none"> • Computer care and use • Keyboarding basics • Word processing • Software use 	<ul style="list-style-type: none"> • Correct use of appropriate terms 	<ul style="list-style-type: none"> • Technology in the business and the home • Technology-related occupations 	<ul style="list-style-type: none"> • Courtesy and sharing of computer time 	
3-4	<ul style="list-style-type: none"> • Computer care and use • Keyboard practice • Word processing, editing, file management 	<ul style="list-style-type: none"> • Correct use of appropriate terms • Expressing ideas with software • Electronic resources 	<ul style="list-style-type: none"> • Computer use in everyday life • Technology-related occupations 	<ul style="list-style-type: none"> • Courtesy and sharing of computer time • Copyright 	<ul style="list-style-type: none"> • Input/output devices • Beginning troubleshooting skills
5-6	<ul style="list-style-type: none"> • Computer care and use • Keyboarding with correct hand position and posture • Word processing, editing, file management • Presentation software 	<ul style="list-style-type: none"> • Terminology – correct use of appropriate terms • Telecommunications 	<ul style="list-style-type: none"> • Computer use in everyday life • Technology-related occupations • Consumer issues regarding technology in every aspect of life 	<ul style="list-style-type: none"> • Courtesy while sharing computer time • Legal issues of software use • Computer abuse including use of Internet, use of filters • Personal responsibility 	<ul style="list-style-type: none"> • Troubleshooting basic malfunctions
7-8	<ul style="list-style-type: none"> • Keyboard fluency • Advanced word processing skills • Presentation software 	<ul style="list-style-type: none"> • Electronic communication • Terminology 	<ul style="list-style-type: none"> • Societal impact • Technology-related occupations • Consumer issues 	<ul style="list-style-type: none"> • Computer abuse • Courtesy/Netiquette • Legal issues 	<ul style="list-style-type: none"> • Awareness of new technology • Troubleshooting malfunctions

BIBLE Eighth Grade 2003-2005

Explore Origins of the Bible: Through the Trinity, Personal Relationship with Jesus and Practical Christianity

- Explain the role of inspiration in the formation of the Bible as it was written and preserved over thousands of years
- Describe the concept of the Trinity and identify the characteristic of each member
- Understand the importance of faith, commitment and a dynamic relationship with Jesus
- Know the fundamental Seventh-day Adventist beliefs
- Explain the importance of developing relationships with others based on Christian values
- Know how to apply Christian principles to your daily life

FINE ARTS

Art

- 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 irregular meter patterns (5/4, 7/4)
- Learn all major key signatures
- Sing a more complex two-part song
- Recognize modulation
- Recognize symphonic form
- Describe how a computer can enhance music
- Listen to music of the Renaissance period
- Learn how to use the various indexes in the SDA hymnal

LANGUAGE ARTS

Viewing

- Locate and interpret examples of literary forms from visual media
- Define aspects of media production and distribution
- Determine the cause and effect of detailed answers to extend the understanding of visual media
- Use figurative language from visual media and answer specific questions to demonstrate understanding

Listening

- Analyze presentations by purpose
- Analyze propaganda and argumentation

Reading

- Develop study skills
- Use specific strategies to understand confusing parts of text; e.g. predict, clarify, question, and summarize
- Read for comprehension and application

Speaking

- Analyze the impact of media on consumers
- Participate in group discussions; refine and use cooperative group processes

Visually Representing

- Create visual media to support a presentation
- Model visual media techniques to show the impact on a particular audience

Writing

- Practice the writing process
- Begin using characteristics of good writing
- Continue enhancing the writing modes
- Narrow the topic to achieve an appropriate focus
- State main idea clearly in a cohesive one sentence thesis
- Write documents related to career development

MATH

Number and Operations

- Use appropriate significant digits in calculations
- Extend understanding of number operations to irrational numbers
- Know the definition of real numbers, set notation and set operations

Algebra

- Add and subtract matrices
- Recognize slope and intercept relationships
- Use information to determine whether situations are functions
- Recognize minimum and maximum values
- Understand the properties of arithmetic and geometric sequences
- Develop an initial conceptual understanding of different uses of variables
- Identify functions as linear or nonlinear and contrast their properties from tables, graphs or equations

Geometry

- Find the surface area of various geometric shapes, e.g. pyramids and cones
- Find the volume of spheres using formula
- Define objects by geometric properties
- Recognize sine, cosine and tangent relationships with respect to the right triangle

Measurement

- Draw picture to assist in solving measurement problems
- Find the size of interior and exterior angles of convex polygons using formula and protractor
- Use appropriate significant digits in calculations
- Convert temperature between Fahrenheit and Celsius

Data Analysis and Probability

- Determine the number of combinations from a given set
- Make a box and whisker 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

Physical: Chemistry

- Explain the structure of matter and how different forms can be combined to create new substances
- Explain conservation of matter
- Describe how elements are organized on the periodic table
- Compare the properties of acids and bases
- Identify and compare physical and chemical change
- Identify methods used to separate mixtures into their component parts

Life: Ecology: Natural Resources; Plant Processes

- Explain how use of natural resources affects quality of life and the health of ecosystems
- Recognize that Earth's materials are limited and explore strategies for addressing this problem
- Describe how water, carbon dioxide, oxygen, and nitrogen are recycled through the environment
- Describe the life processes of a plant including photosynthesis and reproduction

Earth: Creation/Evolution

- Distinguish between the basic ideas of and evidence for naturalistic evolution and special creation

Health: Health Risks, Community Health

- Describe personal and community health care practices that result in prevention, detection and treatment of communicable diseases
- Know how to locate and use community health resources that provide valid health information
- Identify community health organizations and agencies such as The American Cancer Society and the advocacy services they provide

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

United States History: 1861 – Present (Civil War and Reconstruction, Industrial Revolution, Social and Economic Reform, Global Conflicts, United States as World Power, Depression, Modern America, Current Events; United States Government – Constitution)

- Understand God's ultimate control and protection over human affairs
- Understand the basic precepts of the Constitution and the Bill of Rights
- Describe the relationships between key people/groups, events and cultures in United States history
- Explain the causes and effects of major events in American history
- Know causes and effects of key influences/events and be able to place them on a time line
- Interpret events using time lines and narratives
- Use primary and secondary documents and artifacts to interpret historical events
- Understand the daily life and social history of people who lived in early United States history
- Recognize how forces from different spheres of life can cause or shape events
- Understand the role and work of the Adventist church in North America

Civics

- Understand the roles of the Christian citizen in government
- Understand the checks and balance function of the three branches of government
- Trace the development of the American political system and government based on the United States constitution and the Bill of Rights
- Identify citizen rights and how the constitution protects those rights
- Understand the purposes of government as stated in the constitution
- Explain the role of laws in the United States and the process through which they are made, applied and enforced
- Identify how actions of the United States government affect its own citizens as well a citizens of other countries

Geography

- Understand the nature, distribution and migration of human population on the earth's surface
- Understand how human actions modify the environment
- Understand the patterns of human settlement and their causes
- Identify the geographic role of the United States in international relationships
- Identify geographic regions and major places of the United State

Economics

- Identify the principles of Christian stewardship
- Understand the meaning of Gross National Product
- Understand the role of the United States and free enterprise in a global economy
- Understand the concept of prices and the interaction of supply and demand in a market economy
- Identify how changes in technology affect the economy
- Understand that every job opportunity is related to economics
- Recognize how the influence of the development of technology, immigration of peoples and changes in the world market effect career opportunities

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.



**SEVENTH-DAY
ADVENTIST**

**North Pacific Union
Conference
Office of Education**



**KEY LEARNINGS
Eighth Grade**

2003 - 2005

BIBLE **Seventh Grade 2003-2005**

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

FINE ARTS

Art

- 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

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
- 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
- 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

Physical: Force/Motion, Energy/ Work

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

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

SOCIAL STUDIES

World History: Middle Ages – Present (Middle Ages: Europe and Japan; Exploration and Colonization [Africa, Asia]; Renaissance and Reformation, Rise of Islam & 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
- 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

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
- Understand principles of training and conditioning for specific

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.



SEVENTH-DAY ADVENTIST

North Pacific Union Conference Office of Education



KEY LEARNINGS Seventh Grade

2003 - 2005

BIBLE Sixth Grade 2003-2005

Exploring Jesus' Life: His Teaching, Death, Resurrection and the Early Church

- Identify the Bible as God's way of communicating 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 your 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 importance of baptism, 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 with all people
- Understand the early development of the Christian

FINE ARTS

Art

- 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

Viewing

- Scan for a specific purpose using visual media
- Define and interpret examples of literary forms from visual media

Listening

- Adapt listening strategies to fit various situations
- Analyze presentations using established criteria
- Follow multi-step instructions

Reading

- Adapt pace and reading techniques
- Understand specific devices an author uses to accomplish purpose
- Recognize and determine meaning of non-standard usage – images, slang, dialects
- Read for comprehension and application

Speaking

- Use effective speaking skills in varied situations

- Use appropriate verbal and non-verbal techniques for oral presentations

Visually Representing

- Produce visual media to support an opinion
- Generate visual media to compare and contrast information
- Design visual media to conduct an interview
- Demonstrate how media effects the coverage of events or issues

Writing

- Begin word processing in all subject areas
- Practice the writing process
- Use characteristics of good writing
- Write entertaining and complete stories
- Check for effective transitions between sentences to unify ideas
- Write clear, coherent, and focused essays and reports including footnotes and italics

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
- Express solutions to the nearest unit
- Estimate length, area, volume, perimeter, circumference, area of a circle, various shapes and surfaces using everyday objects
- 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 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 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 applied to games
- Understand terms that describe basic movement
- Use basic offensive/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/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

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

SCIENCE

Physical: Electricity, Magnetism

- Compare and describe static and current electricity
- Identify the difference between conductors and insulators.
- Differentiate between open and closed circuits and parallel and series circuits.
- Identify characteristics of magnets and what causes magnetism
- Describe the relationship between electricity and magnetism
- Identify uses of electromagnets

Life: Human Body Systems

- Describe and explain the structure and functions of the human body in terms of cells, tissues and organs
- Describe the functions of each major organ system in the human body
- Describe and explain the relationship and interaction of the organ systems in the human body

Earth: Geology

- Describe Earth's structure and features
- Explain how Earth changes/has changed over time (e.g., erosion, weathering, earthquakes)
- Explore and interpret evidences for the Genesis Flood and the Ice Age
- Describe the components and relationships of Earth's land forms and geological features
- Describe the processes by which rocks and soils are formed
- Classify rocks, minerals and soils based on their origin and their chemical and physical properties
- Identify how successive layers of sedimentary rock and the fossils contained within them can be used to confirm the age, history and changing life forms of the Earth

Health: Drug Effects, Decision Making, Nutrition

- Define drug and identify helpful and harmful drugs
- Explain the short- and long-term physical and emotional consequences of drug use
- Identify personal and community resources for drug abuse education and treatment
- Describe the steps in decision-making, how values develop and how these apply to healthy choices
- Explain healthy eating practices and design nutritional goals based on national dietary guidelines and individual needs
- Identify eating disorders and explain how they adversely affect 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

World History: Creation – Middle Ages (Ancient Civilizations: Mesopotamia, India, Sub-Saharan Africa, Egypt, Greece, Rome, China; Americas: Incas, Mayas, Aztecs; 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 timeline
- Understand the democratic legacy of Greek ideas and government
- Describe the relationships between people/groups, events and cultures in World History
- Understand the democratic legacy of Greek ideas and government
- Understand the global role and work of the Adventist church in North America

Civics

- Compare and contrast the various forms of government in the world's history and identify their effect on the modern world
- Understand how politics helps people with different ideas to reach agreements
- Understand competing ideas about the purposes government should serve
- Know that the world is divided into nations that claim sovereignty over a defined territory and jurisdiction over everyone within it
- Know the rights and responsibilities of citizenship

Geography

- Interpret maps and charts of the world and organize information about people, places and environments
- Construct charts and maps to show information
- Identify the characteristics of ecosystems on the Earth's surface

Economics

- Understand the broader defining characteristics of the term stewardship
- Understand the concept of prices and the interaction of supply and demand in a market economy
- Know the impact of trade on the development of countries
- Identify and understand the changes in people's lives as a result of technology
- Understand economic systems

TECHNOLOGY

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



SEVENTH-DAY ADVENTIST

North Pacific Union Conference Office of Education



KEY LEARNINGS Sixth Grade

2003 - 2005

BIBLE Fifth Grade 2003-2005

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 and 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

- 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, place a variety of art objects in historical/cultural context
- Analyze, describe, demonstrate how factors of time/place influence visual characteristics to give meaning/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
- 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

MATH

Number and Operations

- Understand place value through billions
- Be proficient in counting money and making change
- Develop, use number sense for whole numbers, fractions, 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/generate equivalent forms of fractions, decimals, percents
- Recognize, model/describe multiples, factors, composites, primes
- Determine the GCF and LCM of two numbers
- Convert fractions to the 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
- 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/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 well-being

Movement and Motor Skills

- Demonstrate mature form for all basic manipulative, locomotor and non-locomotor skills
- Demonstrate increasing competence in more advanced 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 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 applied to games
- Understand terms that describe basic movement
- Use basic offensive/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/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

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
- 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
- Describe the organization of the electromagnetic spectrum and the uses/applications of each type of electromagnetic wave
- Compare electromagnetic waves and mechanical 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 physical structures 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 water cycle and relationship to weather/climatic patterns

Health: Reproductive System, Mental/Emotional Health

- 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
- 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

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

- Understand God's ultimate control /protection over human affairs
 - Describe the relationships between key people/groups, events and cultures in United States 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, developments involved in making a new nation: Land/people before Columbus, Age of Exploration, Settling the Colonies, War of Independence, Westward Expansion
 - Understand the role/work of the Adventist Church in North America
- Civics:** Ideas about Civic Life, Politics and Government
- Understand how government works and how participation in government affects citizen life e.g. check and balances, etc.
 - Understand the constitution of the U S 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

Geography: Geographic Features and Patterns of the Environment

- Prepare, examine, interpret charts/maps that show key geographic information such as population, climate, natural resources, etc
- Locate and identify the continents of the world, the fifty states, major cities of the U S, major physical features of North America
- Identify patterns of migrations and cultural interactions in the U S
- Understand the effects of weather/climate on migration patterns
- Recognize that limited resources are used to meet basic needs and unlimited wants
- Understand how physical and human activity 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
- Understand the differences between needs and wants and their relationship to economic tradeoffs
- Understand how supply and demand and price increase and decrease influence consumers and the economy
- Identify economic systems and terms

TECHNOLOGY

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



SEVENTH-DAY ADVENTIST

North Pacific Union Conference Office of Education



KEY LEARNINGS Fifth Grade

2003 - 2005

BIBLE

Fourth Grade 2003-2005

- Following in His Way:** God the Creator, Sustainer, Friend
- Understand that the Bible contains a message for humanity
 - Know the structure and divisions of the Bible
 - Understand that the "Fruit of the Spirit" are an expression of God's character
 - Understand and accept the free gift of salvation
 - Know importance of developing, exercising faith in Jesus
 - Realize the importance of preparing for a mission and service for God
 - Identify specific spiritual gifts given to N T characters
 - Understand that God has a plan for everyone's life
 - Understand that expressions of adoration are an important part of worship
 - Understand the importance of examining and accepting God's unconditional love and forgiveness
 - Know that worship and obedience are a natural response to God's gift of salvation

FINE ARTS

Art

- Use different media, techniques and processes to communicate ideas, experiences and stories
- Know the differences among visual characteristics and purposes of art in order to convey ideas
- Select and use subject matter, symbols and ideas to communicate meaning
- Know that the visual arts have both history and specific relationships to various cultures
- Identify specific works of art as belonging to particular cultures, times and places
- Describe how people's experiences influence the development of specific artworks
- Identify connections between the visual arts and other disciplines in the curriculum

Music

- Read meter signatures (2/4, 3/4, 4/4)
- Identify staff, treble clef and measure
- Know names of lines and spaces of treble clef
- Distinguish between secular and sacred music
- Recognize rondo form (ABACA pattern)
- Recognize terms:ritardando, accelerando, allegro, andante
- Recognize how legato/staccato affect music performance
- Experience nationalistic and patriotic music
- Recognize an overture
- Identify parts of the hymnal page

LANGUAGE ARTS

Viewing

- View visual media for a specific learning purpose
- Ask questions for clarification of visual media
- Recognize how impressions of visual media can influence understanding

Listening

- Listen to and show respect for ideas of others
- Identify false or misleading information
- Connect learning to all subjects from what is heard
- Identify persuasive messages

Reading

- Decode unfamiliar words
- Use punctuation clues to help read aloud
- Understand author's purpose
- Read aloud, adjust speed of reading
- Identify figurative language
- Use word origins,derivations to understand word meanings
- Use the thesaurus to learn word meanings

Speaking

- Use notes, memory aids to assist in speaking effectively
- Convey clearly focused main idea and details, making connection and transition among ideas and elements

Visually Representing

- Generate visual media to communicate topic, context, and purpose
- Construct visual media to demonstrate specific information

Writing

- Write legibly in cursive with proper size and form
- Practice the writing process
- Use characteristics of good writing
- Select an organizational structure to fit purpose
- Identify and use declarative, interrogative, imperative, and exclamatory sentences
- Write business letters, invitations, and thank-you notes

MATH

Number and Operations

- Understand place value through millions
- Understand concept and representation of numbers between zero - one, i.e. fractions - decimals
- Recognize representations for equivalent numbers
- Read, write and compare decimals to the hundredths
- Know equivalents in counting money
- Know how to count up to make change
- Understand how \times and \div relate to solve problems
- Interpret the meaning of a remainder in a division problem
- Memorize multiplication and division facts through 12
- Multiply a 3- and 4-digit number by a 1-digit number
- Divide using 1-digit divisor and 1- 2- or 3-digit dividend
- Multiply two 2-digit numbers
- Understand simple equivalent fractions
- Convert improper fractions to mixed numbers
- $+$ and $-$ fractions and mixed numbers with CD
- Estimate solutions
- Understand basic concepts of LCM and GCF
- Reduce simple fractions to lowest terms
- Explore numbers less than zero by extending the number line and through familiar applications

Algebra

- Construct a table of values to solve problems in a mathematical relationship
- Understand how a change in one variable affects the value of another variable
- Use distributive properties
- Make and justify predictions

Geometry

- Describe points, lines and planes

- Use columns and rows to determine position on a grid
- Use coordinate systems to specify locations
- Identify line symmetry in 3-dimensional shapes
- Create models of 3-dimensional objects
- Multiply to find area of rectangles
- Make and test conjectures about geometric properties and relationships, develop arguments to justify conclusions
- Compare similarities and differences of quadrilaterals

Measurement

- Measure length to the nearest $\frac{1}{4}$ inch
- Use measures less than one unit
- Solve multi-step problems involving measurement
- Estimate and measure the perimeter of irregular shapes
- Compare the number of units to the size of units
- Draw a simple time line
- Determine elapsed time by the hour and half-hour
- Understand time zones and read timetables
- Read Celsius and Fahrenheit thermometers
- Know equivalent measures for simple metric and customary units of length, capacity, weight/mass and time
- Convert simple metric and customary units of length, capacity, weight/mass, and time
- Collect, organize data to tables/graphs with different scales
- Read and interpret data presented in circle graphs
- Conduct simple probability experiments
- Interpret and construct Venn diagrams
- Evaluate the process of data collection

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 in all locomotor patterns and selected manipulative and non-locomotor skills
- Adapt a skill to the demands of a dynamic, environment
- Acquire beginning skills of specialized movement forms
- Combine movement skills in applied settings
- Apply critical elements to improve personal performance
- Use critical elements to provide feedback to others
- Recognize and apply concepts that impact the quality of increasingly complex movement performance

Lifestyle and Fitness

- Select and participate regularly in physical activities
- Identify the benefits derived from regular physical activity
- Identify activities that provide personal pleasure
- Identify several activities related physical fitness

- Associate results of fitness testing to personal health status and ability to perform various activities
- Meet the health-related fitness standards as defined by a fitness testing program
- Experience enjoyment participating in physical activity
- Enjoy practicing activities to increase skill competence
- Interact with friends while participating in group activities
- Use physical activity as a means of self-expression

Sportsmanship and Appropriate Behaviors

- Follow activity-specific rules, procedures and etiquette
- Utilize safety principles in activity situations
- Work cooperatively/productively with a partner, small group
- Work independently/on-task for a specified period of time
- Explore cultural/ethnic self-awareness through participation
- Recognize the attributes that individuals with difference can bring to group activities
- Experience differences and similarities among people by participating in activities of national, cultural, ethnic origins

SCIENCE

Physical: Atomic Structure/Matter

- Explain the structure of atoms as building blocks
- Identify substances as they exist in different states of matter and how they may be changed
- Distinguish between chemical/physical changes in matter

Life: Plants: Classification, Growth, Photosynthesis, Reproduction, Structure/Function

- Group, classify plants based on a variety of characteristics
- Identify conditions necessary for plant survival and growth
- Describe the steps of photosynthesis and sequence them
- Describe life cycle of a plant including pollination process
- Describe basic plant structures, systems, identify functions
- Understand ecosystems and communities and how plants adapt to survive

Earth: Environmental Use: Conservation/Ecology, Pollution

- Identify properties, uses and misuses of Earth materials
- Identify renewable and nonrenewable resources
- Explain how human activity affects the balance of nature
- Recognize that Earth materials are limited and explore strategies for addressing this problem

Health: Disease Prevention, First Aid, Community Health

- Identify sources of diseases and prevention
- Identify appropriate emergency first aid procedures
- Identify important community health care resources

Scientific Inquiry

- Make observations
- Ask questions, form hypotheses based on observations
- Plan a simple investigation
- Collect data from the investigation
- Use data collected 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

History: Earth's Regions and Its People (Time, Technology, Native People, Early Settlers, National Leaders, Transportation, Holidays)

- Recognize the importance of God's global mission and the work of the Adventist church
- Understand time measurements
- Understand current events and the history, traditions and holidays of one's state, provinces and other world regions
- Know the influence of early settlers and native people in one's region and state
- Recognize cultural influences in different world regions

Civics: Ideas about Civic Life, Politics and Government

- Know the difference between power and authority
- Know the characteristics of an effective law, understand the consequences of the absence of government and laws
- Understand the role of diversity and the importance of shared values in the United States
- Understand components of state government, constitution
- Know the importance of Christian citizenship
- Develop responsibility through good decision making
- Understand the roles of volunteerism and organized groups in American social and political life

Geography: Geographic Features, Patterns of Environment

- Know the basic elements of maps and globes
- Use a globe to clarify knowledge of the earth
- Use charts and maps to show the physical and human characteristics of one's state
- Know characteristics of other regions of the United States
- Know how the characteristics of places are shaped by physical and human processes
- Understand how climate, weather effects earth's surface

Economics

- Understand responsibilities of Christian stewardship in a global economy
- Know which goods/services are produced, delivered and shared in various regions; know why people produce them
- Know how the production of goods and services affects the environment
- Understand that limited resources make economic choices necessary
- Learn how technology impacts the world through inventors/inventions

TECHNOLOGY

- Demonstrate proper use and care of computers and other audio-visual equipment
- Practice using the keyboard
- Become familiar with proper computer terms
- Use computers to express ideas with drawing, multi-media and word processing software
- Learn file management
- Learn about technology related occupations
- Use appropriate input/output devices
- Begin troubleshooting for basic malfunctions
- Become aware of copyright issues
- Practice courtesy and respecting of computer time



SEVENTH-DAY ADVENTIST

North Pacific Union Conference Office of Education



KEY LEARNINGS Fourth Grade

2003 - 2005

BIBLE

Third Grade 2003-2005

Accepting His Plan: The Plan of Redemption, God's plan for the church and for the individual

- Understand the importance of studying scripture in daily life
- Know the roles "three-in-one" members of the God-family
- Understand that God and the angels He created lived in heaven in perfect harmony before sin
- Understand that sin and its effects are the result of the universal conflict between God and Satan
- Know that death is a consequence of sin, but God has the power to raise the dead from their graves
- Explain Jesus' role as Messiah, Savior and Redeemer
- Know that Christians are part of God's family and have a responsibility to witness and serve others
- Understand that all people are equal in God's sight and are accepted into the Family of God
- Know how God has worked in history to preserve the Christian church
- Understand that each person has spiritual gifts, talents
- Know, power to make right choices is provided by grace
- Understand that Jesus is coming back for all who have chosen to follow Him and will live with Him

FINE ARTS

Art

- Use different media, techniques and processes to communicate ideas, experiences and stories
- Know the differences among visual characteristics and purposes of art in order to convey ideas
- Select and use subject matter, symbols and ideas
- Know that the visual arts have both history and specific relationships to various cultures
- Identify specific works of art as belonging to particular cultures, times and places
- Describe how people's experiences influence the development of specific artworks
- Identify connections between the visual arts and other disciplines in the curriculum

Music

- Recognize and write eighth notes and rests
- Recognize major and minor tonality (sounds)
- Use introduction, interludes, codas
- Recognize AABB and AABA patterns
- Know meaning of signs *p*, *mp*, *mf* and *f*
- Identify different solo voices
- Identify music styles from different countries
- Learn to use the hymnal index

LANGUAGE ARTS

Viewing

- Analyze information learned from media
- Summarize and sequence events and ideas
- Identify the main format of visual media

Listening

- Listen without interrupting
- Identify how literature uses the sounds of language

Reading

- Apply phonics elements in reading and writing

- Use dictionary and glossary to learn word meanings
- Read both narrative and expository text
- Read fiction and nonfiction
- Read aloud, speaking clearly and with expression

Speaking

- Speak clearly, using correct grammar and words
- Express ideas in a logical manner
- Use facial expressions and gestures

Visually Representing

- Develop visual media to organize and group information
- Create visual media to show main idea, supporting details

Writing

- Transition to cursive writing
- Practice the writing process
- Begin using characteristics of good writing
- Introduce and use parts-of-speech
- Write friendly letters
- Indent the beginning of a paragraph
- Expand the use of correct punctuation
- Proofread

MATH

Number and Operations

- Understand, describe place value to ten-thousands place
- Design and label number lines appropriate to the situation
- Compare and order numbers through 10,000
- Skip count by threes, e.g. 1, 18, 21, 24...
- Understand the commutative property of + and x
- Understand the zero property of multiplication
- Understand the meaning of the decimal point
- Understand the concept of tenths written as a decimal
- Understand the meaning of multiplication and division
- Know the multiplication and division fact families
- Know multiplication and corresponding division facts
- Add and subtract numbers up to 4-digits
- Multiply mentally by 10 and 100
- Multiply and divide 2-digit number by a 1-digit number
- Divide a 2-digit number by a 1-digit number with remainder
- Understand meaning, structure of fractions (zero to one)
- Understand and write simple mixed numbers
- Compare fractions with like denominators
- Add and subtract fractions with like denominators
- Add and subtract money
- Use strategies to estimate whole number computations

Algebra

- Analyze mathematical sequences with/without a calculator
- Use patterns - predictions, solve problems, relationships
- Understand, explain relationships in equations, inequalities
- Solve equations and inequalities
- Identify and use commutative and associative properties
- Understand and use grouping symbols

Geometry

- Explore congruence and similarity
- Add to find perimeter
- Count to find area and volume
- Create models of 2-dimensional objects

- Investigate simple nets
- Analyze and describe 2- and 3-dimensional objects
- Find and name locations on labeled grid/coordinate system
- Identify shapes that when put together = a given shape

Measurement

- Use correct measurement vocabulary
- Explain, measure temperature using Celsius, Fahrenheit
- Read and understand a simple time line
- Measure length, weight, volume using metric and US customary units to nearest $\frac{1}{2}$ unit as appropriate
- Using appropriate tools, draw a line or shape with specified measurements
- Count money up to \$10.00
- Understand attributes of second, minute, hour
- Tell time to the minute, before or after the hour
- Measure elapsed time using a calendar or clock
- Read/understand a calendar using day, week, month, year
- Count weeks before/after certain dates on the calendar

Data Analysis and Probability

- Organize and interpret data using line graphs
- Construct graphs using data from a table
- Discover patterns in tables and graphs by creating, organizing, recording and analyzing data
- Formulate questions and categories for data collection and actively collect first-hand information
- Describe the shape and important features of a set of data and compare related data sets

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 in all locomotor patterns and selected manipulative and non-locomotor skills
- Adapt a skill to the demands of a dynamic, environment
- Acquire beginning skills of specialized movement forms
- Combine movement skills in applied settings
- Apply critical elements to improve personal performance
- Use critical elements to provide feedback to others
- Recognize and apply concepts that impact the quality of increasingly complex movement performance

Lifestyle and Fitness

- Select and participate regularly in physical activities
- Identify the benefits derived from regular physical activity
- Identify physical activities that provide personal pleasure
- Identify several activities related to physical fitness

- Associate results of fitness testing to personal health status and ability to perform various activities
- Meet the health-related fitness standards as defined by a fitness testing program
- Experience enjoyment participating in physical activity
- Enjoy practicing activities to increase skill competence
- Interact with friends while participating in group activities
- Use physical activity as a means of self-expression

Sportsmanship and Appropriate Behaviors

- Follow activity-specific rules, procedures and etiquette
- Utilize safety principles in activity situations
- Work cooperatively/productively with a partner, small group
- Work independently/on-task for a specified period of time
- Explore cultural/ethnic self-awareness through participation
- Recognize the attributes that individuals with difference can bring to group activities
- Experience differences and similarities among people by participating in activities of national, cultural, ethnic origins

SCIENCE

Physical: Electricity/Magnetism, Force/Motion: Friction, Gravity, Inertia

- Identify the basic nature of current and static electricity
- Define force, friction and explain how they affect movement
- Define gravity and describe how it affects matter
- Compare gravitational attraction of objects of varying mass
- Define inertia and describe its effects
- Describe how forces affect the motion of objects

Life: Birds, Mammals, Classification

- Describe the basic needs of living things
- Describe how animals gather and store food, defend themselves, find shelter and adapt to their environments
- Describe how related animals have similar characteristics
- Explain food chains and food webs and identify producers and consumers in an ecosystem
- Classify organisms by characteristics - similar and different

Earth: Meteorology: Atmosphere, Water Cycle, Seasons, Weather Elements; Space Exploration

- Describe the composition of the atmosphere
- Describe the water cycle
- Explain change of seasons, why Earth is unequally heated
- Identify the elements of weather
- Identify and trace the movement of objects in the sky
- Describe the earth's place in the solar system and the patterns of movement of objects within the solar system
- Recognize contributions of space exploration, past/present

Health: Nutrition, Family Health Habits, Consumer Health

- Describe healthy dietary guidelines
- Categorize foods in the food pyramid
- Explain how the body utilizes basic nutrients
- Understand that God has provided natural health laws
- Understand how the family influences personal health
- Identify proper consumer health care habits

Scientific Inquiry

- Make observations
- Ask questions, form hypotheses based on observations
- Plan a simple investigation

- Collect data from the investigation
- Use data collected 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

History: Communities (Time, Communities: Past/Present)

- Understand time: years, decades, centuries
- Understand time lines and history of one's community
- Understand how God works through people to help make the community a better place
- Know how the Adventist church helps communities
- Understand community through traditions, local holidays
- Understand the contributions and significance of historical figures in one's community
- Understand the development of communities e.g., pioneers/explorers, Native People, ethnic groups

Civics: Ideas about Civic Life, Politics and Government

- Follow the rules (laws and expectations) of the community
- Respect the rights and property of others
- Understand the role of diversity and the importance of shared values in the United States
- Understand the components of rural, urban government
- Know the importance of Christian citizenship
- Develop responsibility through good decision making
- Understand the roles of volunteerism and organized groups in American social and political life

Geography: Geographic Features, Patterns of Environment

- Know the basic elements of maps and globes and construct maps of one's community
- Identify how the characteristics of places are shaped by physical and human processes
- Understand how climate and weather help to shape features on the earth's surface

Economics: Interaction of Supply and Demand

- Understand responsibilities of Christian stewardship
- Understand the needs of your community
- Know about the finances of a community
- Learn about goods, services, government in a community
- Know importance of business and services in a community
- Identify transportation and communication in community

TECHNOLOGY

- Demonstrate proper use and care of computers and other audio-visual equipment
- Practice using the keyboard
- Become familiar with proper computer terms
- Use computers to express ideas with drawing, multi-media and word processing software
- Learn file management
- Learn about technology related occupations
- Use appropriate input/output devices
- Begin troubleshooting for basic malfunctions
- Become aware of copyright issues
- Practice courtesy and respecting of computer time



SEVENTH-DAY ADVENTIST

North Pacific Union Conference Office of Education



KEY LEARNINGS Third Grade

2003 - 2005

BIBLE **Second Grade 2003-2005**

Exploring His Power: Through Creation, the Israelites, Jesus and the Early Church

- Identify Bible organization (book, chapters and verses)
- Know that Bible lessons help in everyday life
- Know that God is everywhere, all-powerful and all-knowing
- Understand that the “God Family” created the world, one way God reveals Himself to humanity
- Understand that Adam and Eve were created to have a perfect relationship with God
- Know the story of Jesus’ birth, death and resurrection
- Realize that salvation is a free gift when accepting Jesus as Savior
- Understand that although sins are forgiven, there are still consequences to choices
- Identify one’s spiritual gifts and acknowledge those given to others
- Understand that a consistent prayer life brings peace, protection and answers
- Know that God wants people to trust Him to provide all needs
- Understand that worship and obedience is a natural response to Christ’s work in one’s life
- Understand the importance of preparing for Christ’s return
- Know that God has forgiven and has the power to resurrect

FINE ARTS

Art

- Use different media, techniques and processes to communicate ideas, experiences and stories
- Know the differences among visual characteristics and purposes of art in order to convey ideas
- Select and use subject matter, symbols and ideas
- Know that the visual arts have both history and specific relationships to various cultures
- Identify specific works of art as belonging to particular cultures, times and places
- Describe how people’s experiences influence the development of specific artworks
- Identify connections between the visual arts and other disciplines in the curriculum

Music

- Write whole, half, dotted half, quarter notes and rests
- Demonstrate correct posture and breathing
- Recognize the ABA pattern
- Recognize sudden or gradual changes in tempo
- Recognize sudden or gradual changes in dynamics
- Identify stringed instruments and their sounds
- Listen to classical music
- Learn to locate hymns by page numbers

LANGUAGE ARTS

Viewing

- State the main idea or message in visual media
- Explain personal thoughts and feelings after viewing media
- Use picture clues to predict content

Listening

- Use appropriate posture facing the speaker

- Provide immediate feedback
- Ask and answer relevant questions briefly and politely
- Determine purpose for listening

Reading

- Apply phonics elements in reading and writing
- Decode words in isolation and in connected text
- Know story elements
- Apply a variety of strategies to learn word meanings
- Use comprehension strategies to improve comprehension
- Increase speed of reading while maintaining accuracy

Speaking

- Convey clear, focused main idea with supporting details
- Ask questions to clarify information

Visually Representing

- Produce visual media to differentiate real and imaginary information
- Create visual media to demonstrate understanding

Writing

- Form letters and words to be easily read by others
- Correctly spell high-frequency sight words
- Practice the writing process
- Begin using characteristics of good writing
- Evaluate one’s own writing
- Develop paragraphs with one topic and at least four supporting details
- Write for various purposes
- Use basic rules of punctuation

MATH

Numbers and Operations

- Count and understand numbers with 3-digits
- Skip count by two, e.g. 23, 25, 27...
- Understand and use ordinals 1-20
- Understand even and odd numbers
- Understand the place value of hundreds, tens, ones
- Given a math fact, construct the other three in the fact family
- Know addition and subtraction facts through 20 by recall
- Add and subtract 2-digit numbers with renaming
- Add and subtract 3-digit numbers with no renaming
- Add a series of three numbers
- Using a number line, explain rounding to the nearest ten
- Write, add and subtract money using appropriate symbol
- Understand situations that entail multiplication and division, i.e. equal groupings of objects and sharing equally

Algebra

- Use patterns to make generalizations and predictions
- Analyze patterns in tables and graphs
- Describe qualitative and quantitative changes involving addition and subtraction
- Understand equivalence concepts using symbols

Geometry

- Investigate and predict results of assembling and disassembling 2- and 3- dimensional shapes
- Find locations using simple coordinates
- Recognize prisms, pyramids, cylinders and cones
- Relate ideas in geometry to number and measurement

Measurement

- Select and use appropriate measuring tools
- Select and use appropriate units of measurement
- Use different units to measure the same thing
- Use nonstandard units to compare weight of real objects and capacity of real containers
- Estimate the weight of an object
- Apply and use measurements in problems and “real life” situations
- Tell time to the nearest minute (digital) and the nearest 5 minutes (analog)
- Use and compare A.M. and P.M. time designations
- Count coins and dollars to \$5.00
- Determine correct change to \$1.00 by counting
- Estimate to the nearest dollar
- Use correct symbols in writing money amounts
- Understand one hour of elapsed time
- Identify days and dates on a calendar and one week before and after a certain date on a calendar

Data Analysis and Probability

- Construct and interpret data using a simple bar graph
- Interpret data as represented in a simple table or chart
- Make predictions, test validity and do a probability study with a 50/50 chance

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 - skip, hop, gallop, slide
- Demonstrate mature motor patterns in simple combinations, e.g. dribbling a ball while running
- Demonstrate smooth transitions in sequential motor skills
- Exhibit the ability to adapt and adjust movement skills
- Demonstrate control in traveling activities
- Identify the critical element/s (technique/s) of basic movement patterns
- Apply movement concepts to a variety of basic skills
- Use feedback to improve performance

Lifestyle and Fitness

- Experience and express pleasure from participation in physical activity
- Identify at least one activity associated with each component of health-related physical activity
- Engage in sustained physical activity that causes an increased heart rate and heavy breathing

- Recognize the physiological indicators that accompany moderate to vigorous physical activity
- Know how to measure heart rate
- Identify the components of health-related physical fitness
- Gain competence which will provide increased enjoyment in movement
- Try new activities
- Express feelings about and during physical activity
- Enjoy interaction with friends through physical activity

Sportsmanship and Appropriate Behaviors

- Apply rules, procedures and safe practices
- Follow directions
- Work cooperatively with others to complete an assigned task
- Play and cooperate with other regardless of personal differences, e.g. gender, ethnicity, disability
- Treat others with respect during play
- Resolve conflicts in socially acceptable ways
- Practice Christ-like principles in interactions with others

SCIENCE

Physical: States/Changes of Matter, Energy Waves: Heat

- Identify the states of matter and their characteristics
- Describe physical changes that occur in matter
- Define heat and describe how it affects matter

Life: Amphibians/Reptiles, Insects, Human Body Systems

- Describe the basic needs of living things
- Recognize characteristics that are similar and different between organisms
- Describe how related plants and animals have similar characteristics
- Describe how animals gather and store food, defend themselves, find shelter and adapt
- Recognize the organization of body's systems and organs

Earth: Geology: Earth's Structure, Dinosaurs/Fossils;

Natural Resources

- Recognize physical differences in Earth materials.
- Describe Earth's basic structure and habitats
- Identify examples of common dinosaurs
- Explain fossils as evidence of formally living organisms
- Identify Earth's basic natural resources found and the wise use of these resources

Health: Home/Community Safety, Emotions

- Identify common hazards at home
- Observe rules for public safety and recall appropriate precautions that should be taken in special conditions
- Identify emotions and share feelings in appropriate ways
- Know ways to seek assistance if worried, abused or threatened

Scientific Inquiry

- Make observations
- Ask questions/form hypotheses based on observations
- Plan a simple investigation
- Collect data from the investigation
- Use data collected from the investigation to explain 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

History: Neighborhoods (Time, Holidays, Neighborhoods: Past and Present)

- Begin using time lines and time words
- Recognize the significance of cultural holidays
- Understand that God is present in one's neighborhood
- Explore one's neighborhood
- Explore neighborhoods in history e.g. early settlers, Native American
- Recognize the significance of cultural holidays
- Understand how the Adventist church helps in one's neighborhood

Civics: Ideas about Civic Life, Politics and Government

- Understand the purposes of laws and know how they protect individual rights
- Know current local, national and global leaders
- Know the importance of Christian citizenship
- Develop responsibility through good decision making
- Understand individual roles in groups and government

Geography: Geographic Features and Patterns of the Environment

- Classify areas according to climate, vegetation, landform
- Locate where one's family lives on maps of neighborhood, community, state, country and world
- Construct a simple map of one's neighborhood
- Understand the interrelationship between people and the environment
- Know how a neighborhood is part of a community, state and country

Economics:

- Understand responsibilities of Christian stewardship
- Know the ways people earn a living in the neighborhood
- Identify the basic needs of individuals, families and communities

TECHNOLOGY

- Demonstrate proper use and care of computers
- Begin learning basic keyboarding and computer terms
- Use computers to express ideas with drawing and word processing software
- Learn about the role of technology in business and home
- Learn about technology related occupations
- Practice courtesy and sharing of computer time



SEVENTH-DAY ADVENTIST

North Pacific Union Conference Office of Education



KEY LEARNINGS Second Grade

2003 - 2005

BIBLE

First Grade 2003-2005

Belonging to His Family: The Heavenly Family, Families of the Bible and the Church

- Understand that studying Bible leads to understanding God
- Begin to be familiar with the way the Bible is organized
- Identify the “three-in-one” members of the God family, and their individual ministry
- Understand that God is worthy of adoration and trust
- Know that God is the creator, and still loves and cares for individuals
- Understand that before the Fall, Adam and Eve lived in the perfect light of God's presence
- Know that eternal death is the consequence of sin
- Identify spiritual gifts given to OT Bible characters
- Know the story of how the Adventist church began
- Understand the importance of being an active witness for Jesus
- Understand Jesus will reunite all families who love Him

FINE ARTS

Art

- Use different media, techniques and processes to communicate ideas, experiences and stories
- Know the differences among visual characteristics and purposes of art in order to convey ideas
- Select and use subject matter, symbols and ideas
- Know that the visual arts have both history and specific relationships to various cultures
- Identify specific works of art as belonging to particular cultures, times and places
- Describe how people's experiences influence the development of specific artworks
- Identify connections between the visual arts and other disciplines in the curriculum

Music

- Maintain a steady beat
- Understand the value of half and quarter notes
- Write note heads around a line and in a space
- Identify/play pitched and un-pitched classroom instruments
- Singsongs with simple accompaniment patterns
- Recognize the AB pattern
- Recognize differences in tones of human voices
- Identify band instruments by family (brass, woodwind, percussion) and their sounds
- Learn hymns of praise

LANGUAGE ARTS

Viewing

- Use picture clues to predict content
- Compare and contrast works read and viewed
- Understand that media messages are created by people
- Distinguish characteristics between fantasy and reality

Listening

- Listen and stay on the topic in a conversation
- Listen attentively, respectfully while waiting to speak
- Summarize auditory information

Reading

- Phonemic awareness

- Explicit systematic phonics
- Share what is read
- Recognize sight words
- Use correct clues to predict new words

Speaking

- Retell familiar stories
- Deliver brief recitations

Visually Representing

- Develop informational visual media
- Connect information with personal experiences

Writing

- Leave proper spacing between words and sentences
- Spell word family patterns
- Write complete sentences
- Begin the writing process
- Use ending punctuation

MATH

Number and Operations

- Count, write and understand numbers 0 to 100
- Count by twos, fives, tens and twenty-fives to 100
- Skip count by tens e.g. 17, 27, 37 ...
- Connect numbers to the qualities they represent using various models and representations
- Understand place value of tens and ones
- Explore the concept of zero
- Compare numbers using symbols $>$, $<$ and $=$
- Understand the meaning of addition and subtraction and relate to appropriate symbols
- Understand basic addition and subtraction fact families
- Develop a counting strategy for $+$ and $-$ facts to 20
- Memorize $+$ with sums to 12 and related $-$ facts
- Add and subtract 1- and 2-digit numbers, with no renaming
- Understand basic fractions e.g. halves, thirds and fourths
- Read number words to ten
- Understand and use a number line

Algebra

- Recognize and express expanding and repeating patterns
- Identify properties of patterns; create and describe using letters and symbols
- Use variables and open sentences to express relationships
- Use the commutative property and solve number sentences with numbers and symbols

Geometry

- Describe attributes/parts of 2- and 3-dimensional objects
- Describe shapes from different perspectives
- Apply ideas about direction and space
- Recognize and apply slides, flips and turns
- Recognize rectangles and spheres
- Recognize sides and corners of shapes
- Recognize geometric shapes, structures in the environment
- Recognize and draw a line of symmetry in objects
- Copy figures and draw simple 2-dimensional shapes from memory

Measurement

- Identify and recognize measurable attributes of an object

- Estimate and measure length, weight, volume and mass using nonstandard and standard units
- Compare objects in terms of length, area, capacity, weight
- Recognize and explain the need for measuring tools and fixed units
- Order sequence of events with respect to time, e.g. seasons; morning, afternoon, night; o'clock
- Know the number of minutes in an hour
- Tell time to the hour and half hour
- Identify pennies, nickels, dimes, quarters, half-dollars and dollars
- Determine the value of a set of coins to \$1.00
- Determine the equivalent value of coins to \$1.00
- Know and name the twelve months of the year

Data Analysis and Probability

- Use whole number units to construct graphic representations
- Understand information represented in simple bar graphs, line graphs and pictographs
- Collect first-hand information by conducting surveys, measuring and performing simple experiments
- Collect and organize data into charts using tally marks

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 - skip, hop, gallop, slide
- Demonstrate mature motor patterns in simple combinations, e.g. dribbling a ball while running
- Demonstrate smooth transitions in sequential motor skills
- Exhibit the ability to adapt and adjust movement skills
- Demonstrate control in traveling activities
- Identify the critical element/s (technique/s) of basic movement patterns
- Apply movement concepts to a variety of basic skills
- Use feedback to improve performance

Lifestyle and Fitness

- Experience and express pleasure from participation in physical activity
- Identify at least one activity associated with each component of health-related physical activity
- Engage in sustained physical activity that causes an increased heart rate and heavy breathing
- Recognize the physiological indicators that accompany moderate to vigorous physical activity
- Know how to measure heart rate

- Identify the components of health-related physical fitness
- Gain competence which will provide increased enjoyment in movement
- Try new activities
- Express feelings about and during physical activity
- Enjoy interaction with friends through physical activity
- **Sportsmanship and Appropriate Behaviors**
- Apply rules, procedures and safe practices
- Follow directions
- Work cooperatively with others to complete an assigned task
- Play and cooperate with other regardless of personal differences, e.g. gender, ethnicity, disability
- Treat others with respect during play
- Resolve conflicts in socially acceptable ways
- Practice Christ-like principles in interactions with others

SCIENCE

Physical: Electricity/Magnetism, Force/Motion, Energy/Work

- Define electricity and describe electrical fields of force
- Recognize that electricity in circuits produces light, heat, sounds and magnetic effects
- Compare the force of various magnets
- Investigate how magnets interact with each other
- Define force and gravity
- Describe how physical forces affect an object's movement
- Define energy and identify common types and uses
- Define work
- Identify simple, compound machines and their relationships

Life: Plants/Animals: Biomes/Habitats, Life Cycles, Characteristics, Classification; The Senses

- Identify various ecosystems (grasslands, forests, wetlands, desert, etc.) and the organisms that live there
- Understand growth processes and life cycles of plants
- Describe the basic needs of living things
- Describe how animals gather and store food, defend themselves and find shelter
- Recognize characteristics that are similar and different between related and unrelated organisms
- Identify the senses and their functions and describe how they contribute to learning

Earth: Solar System: Sun, Earth, Moon, Seasons

- Identify the Sun as the source of heat and light to Earth and explain why the Sun is necessary for life on Earth
- Identify Earth as one of the Sun's planets
- Understand that Earth revolves around the Sun and the moon is Earth's satellite
- Identify and trace the movement of objects in the sky, including the orbits of the Earth and moon
- Recognize how Earth's orbit influences the seasons
- Compare and contrast the seasons

Health: Care/Basic Structures of Teeth, Eyes, Ears, Skin

- Describe structures, functions and personal hygiene of the sense organs
- Describe structure, function and personal hygiene of teeth

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

History: Families (Time, Families: Past/Present, Holidays)

- Identify calendar time: days, weeks, months, birthdays, holidays
- Understand that God has a plan for one's family
- Develop personal picture timeline of one's family history
- Know family history through two generations
- Discuss family traditions
- Explore families in history e.g. early settlers, Native people, national leaders, SDA pioneers, missionaries
- Understand why national, cultural and religious holidays are celebrated
- Know the history of American symbols e.g. the eagle, the Liberty Bell, flag

Civics: Ideas about Civic Life, Politics and Government

- Understand basic safety rules
- Understand individual roles in groups and government
- Understand the relationship between home, school and the community
- Appreciate diversity in people
- Know current local and national leaders
- Know the importance of Christian citizenship
- Develop responsibility through good decision making

Geography: Understand Geographic Features and Patterns of the Environment

- Read and identify simple maps and globes
- Locate where one's family lives on maps of neighborhood, community, state, country and world
- Understand climate of the community in which one lives
- Recognize the importance and distribution of and changes in natural resources

Economics

- Understand responsibilities of Christian stewardship
- Identify how community helpers provide services one's family
- Know the major services provided by the community
- Know how families earn and spend money

TECHNOLOGY

- Demonstrate proper use and care of computers
- Begin learning basic keyboarding and computer terms
- Use computers to express ideas with drawing and word processing software
- Learn about the role of technology in business and home
- Learn about technology related occupations
- Practice courtesy and sharing of computer time



SEVENTH-DAY ADVENTIST

North Pacific Union Conference Office of Education



KEY LEARNINGS First Grade

2003 - 2005

BIBLE Kindergarten 2003-2005

Learn about the Life of Jesus and how to be like Jesus

- Understand studying the Bible can lead to knowing God and learning to be like Him
- Understand that the God family – “God the Father, God the Son and God the Holy Spirit” work in perfect unity, yet are separate and unique beings
- Know that God is the Creator of the Universe and that He is everywhere at once and all-knowing
- Learn the story of the origin of sin and God’s plan of salvation
- Realize the benefit from following Christ’s example in one’s daily life
- Understand that God depends on individuals to spread the Good News of salvation
- Understand how to show one’s commitment to God
- Know that people have similar spiritual gifts found in the Bible characters
- Understand the freedom to choose good or evil
- Explain the importance of prayer and praise
- Develop a spirit of thankfulness
- Know that Jesus is coming back

FINE ARTS

Art

- Use different media, techniques and processes to communicate ideas, experiences and stories
- Know the differences among visual characteristics and purposes of art in order to convey ideas
- Select and use subject matter, symbols and ideas to communicate meaning
- Know that the visual arts have both history and specific relationships to various cultures
- Identify specific works of art as belonging to particular cultures, times and places
- Describe how people’s experiences influence the development of specific artworks
- Identify connections between the visual arts and other disciplines in the curriculum

Music

- Initiate a steady beat
- Recognize quarter notes
- Begin echo singing
- Sing with instrumental accompaniment
- Discern when a verse has ended and a chorus has begun
- Listen to band and orchestra music
- Sing scripture songs and children’s hymns

LANGUAGE ARTS

Viewing

- View pictures to gain meaning
- Predict unknown words from picture clues
- Answer questions as a means to understanding content
- Share thoughts and feelings after viewing visual media
- Sequence story events using pictures

Listening

- Make eye contact
- Listen and follow one and two step directions

- Listen to others while waiting for turn to speak
- Listen to a variety of media

Reading

- Phonemic awareness
- Explicit systematic phonics
- Pre-reading concepts
- Follow print from left to right
- Make connections between words and pictures
- Know that print tells the story

Speaking

- Learn simple rules for conversation
- Share information and ideas clearly

Visually Representing

- Experiment with visual forms of communication
- Design visual media to model what makes presentations appealing

Writing

- Print from left to right
- Use invented spelling
- Correctly spell CVC/CVCC words
- Dictate or write a personal experience in sequential order
- Begin to use ending punctuation
- Begin to use capitalization

MATH

Number and Operations

- Count and understand number to 20
- Write numbers 0 to 20
- Use one-to-one correspondence with numbers and objects
- Understand and represent adding two numbers with sums to ten
- Add and subtract two numbers using objects to ten

Algebra

- Recognize and explain how objects can be classified
- Sort, classify and order objects by time, size, number and other properties
- Compare and contrast objects
- Identify, create, copy, describe and extend sequences e.g. sounds, shapes, motions, numbers
- Model a mathematical problem situation using manipulatives

Geometry

- Compare, sort and arrange similar and different objects by size, color and shape
- Identify triangles, squares and circles
- Describe relative position of objects in space
- Identify and fit pieces of puzzles/shapes that go together
- Construct 3-dimensional objects

Measurement

- Compare the weight of two objects and the capacity of two containers
- Compare and describe length, size, distance, temperature e.g. long, longer, longest, same length
- Measure length by counting non-standard units
- Recognize how a thermometer denotes hot, cold and medium temperatures
- Measure area using concrete objects

- Order events by time e.g. before, after
- Identify that clocks, watches and calendars are used to measure time
- Tell time to the hour
- Know and name the seven days of the week in order (relate to Sabbath)

Data Analysis/ Probability

- Discuss events as likely or unlikely
- Pose questions and gather data about themselves and their surroundings

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 progress toward the mature form of selected manipulative, locomotor and non-locomotor skills
- Demonstrate mature form in walking and running
- Identify fundamental movement (skip, strike)
- Establish a beginning movement vocabulary, e.g. personal space, high/low levels, fast/slow speeds, light/heavy weight, balance, twist
- Apply appropriate concepts to performance, e.g. change direction while running

Lifestyle and Fitness

- Participates daily in moderate to vigorous physical activity
- Select and participate in activities that require some physical exertion during free time
- Identify likes and dislikes connected with participation in physical activity
- Sustain moderate to vigorous physical activity in accordance with an approved fitness test
- Identify the physiological signs of moderate physical activity, e.g. fast heart rate, heavy breathing
- Understand the value of engaging in physical activities as play and recreation
- Associate positive feelings with participation in physical activity and play
- Try new movement activities and skills

Sportsmanship and Appropriate Behaviors

- Learn and apply concepts of grace and forgiveness
- Apply, with teacher reinforcement, class room rules and procedures and safe practices
- Share space and equipment with others
- Recognize the joy of shared play
- Interact positively with students in class regardless of personal differences e.g. race, gender, disability, religion

SCIENCE

Physical: Simple Measurement, Observation, Light/Colors

- Perform simple comparative measurements
- Describe objects according to their physical properties e.g., color, texture, size
- Describe various sources of light
- Identify sunlight as a composite of all colors
- Identify primary colors
- Describe the composition of secondary colors
- Identify the fixed order of color as found in a rainbow

Life: Worms, Insects, Spiders

- Recognize characteristics that are similar and different between organisms
- Describe the basic needs of living things
- Describe how related animals have similar characteristics
- Identify how animals gather and store food, defend themselves, find shelter and adapt
- Understand the beneficial effects of earthworms
- Explain how insects are both harmful and helpful
- Know the dangers of poisonous spiders

Earth: Air, Land, Water, Ecology, Seasons

- Describe air as a substance that takes up space and moves around us
- Recognize that the Earth is made up of land, water and the gases of the atmosphere
- Recognize/describe appropriate ways to care for our Earth
- Identify God's role in the creation of the Universe
- Understand how Earth's position in relation to the sun accounts for days, seasons and years
- Identify seasonal changes in weather patterns

Health: Home/School Safety

- Identify common hazards and practice safety rules
- Demonstrate appropriate work and play behaviors

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

History: Yourself (Time, Families, Holidays)

- Introduce calendar time: days, weeks, months, birthdays, holidays
- Develop a personal picture time line
- Understand that God has a plan for each person
- Understand one's role in one's family
- Explore the contributions of the lives of people in past and present

Civics: Ideas about Civic Life, Politics and Government

- Understand basic safety rules
- Understand individual roles in groups and government
- Understand the relationship between home, school and the community
- Appreciate and respect diversity
- Know the importance of Christian citizenship
- Develop responsibility through good decision making

Geography: Geographic Features and Patterns of the Environment

- Know where each lives
- Know what it is like where each lives e.g. weather, topography

Economics: Role of Community Helpers

- Understand that community helpers are paid for the services provided
- Explore basic information about transportation and communication
- Know that a price is the amount a person pays when goods or services are bought
- Know the major services provided by the community
- Know that some of the goods and services are provided by the government

TECHNOLOGY

- Demonstrate proper use and care of computers and other audio-visual equipment
- Begin learning basic keyboarding
- Use a variety of electronic resources to enhance learning and access information
- Use computers to express ideas with drawing and word processing software
- Begin learning correct use of computer terms
- Practice courtesy and sharing of computer time



SEVENTH-DAY
ADVENTIST

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KEY LEARNINGS
Kindergarten

2003 - 2005