2013

A Beka Book®

# Scope & Sequence

## Preschool through Grade Twelve

# P Preschool

## Language Arts

**Two-Year-Olds**
Language development and listening skills that include color words, shapes, animals, transportation, countries, community helpers, health, safety, manners, science

**Three-Year-Olds**
Recognition of name, sound, and picture for short vowels and consonants
Formation of vowels and consonants in upper and lower case

Language development and listening skills that include color words, shapes, animals, transportation, countries, community helpers, health, safety, manners, science

## Numbers

Simple counting 1–25
Number concepts 1–10

Simple counting 1–30
Number concepts 1–15

## Bible

Hymns/choruses
Memory verses

Lessons such as Creation, Noah, Boy Samuel, Daniel, Boyhood of Jesus, Zacchaeus, Good Samaritan

## Music Arts & Crafts

Traditional and fun songs

Colors, shapes, following directions, eye-hand coordination

# K4 Four-Year-Old Kindergarten

## Language Arts

**Phonics and Reading**
Recognition of name, sound, and picture of long and short vowels and consonants
Sounding of blends and one- and two-vowel words
Reading of sentences and stories with one- and two-vowel words

**Cursive Writing**
Formation of letters, blends, and words
Writing of first name

**Poetry**
Twenty-seven poems and finger plays committed to memory

**Language**
Language development and listening skills that include color words, shapes, animals, transportation, countries, community helpers, health, safety, manners, science

## Numbers

Number recognition and counting 1–100
Number concepts 1–20
Numbers before and after 1–20

Numbers largest and smallest 1–20
Addition facts

| | |
|---|---|
| 1 + 1 | 5 + 1 |
| 2 + 1 | 6 + 1 |
| 3 + 1 | 7 + 1 |
| 4 + 1 | 8 + 1 |
| | 9 + 1 |

## Bible

Lessons such as Creation, Noah, Boy Samuel, Daniel, Boyhood of Jesus, Zacchaeus, Good Samaritan (includes memory verses and hymns/choruses)

## Music Arts & Crafts

Traditional and fun songs

Development of motor skills in drawing, coloring, cutting, and gluing

# K5 Five-Year-Old Kindergarten

## Language Arts

**Phonics and Reading**
Recognition of name, sound, and picture of long and short vowels and consonants
Sounding of blends, one- and two-vowel words, and words with special sounds
Beginning phonics rules and special sounds
Reading of sentences and stories from twelve books containing one- and two-vowel words and special sounds

**Cursive Writing**
Letters, blends, words, and sentences
Name

**Language**
Recognition of sentences by capital letters and periods

**Poetry**
Thirteen poems committed to memory

## Numbers

Number recognition, counting, and writing 1–100
Number concepts 1–100
Numbers before and after 1–100
Numbers largest and smallest 1–100
Counting and writing by tens to 100
Counting and writing by fives to 100
Counting and writing by twos to 100
Number sequences by ones
Using number words 1–10 and first–tenth
Value of coins and dollar bill
Telling time
Using the calendar
Days of the week
Addition facts through 10
One-step story problems in addition
Beginning subtraction

## Science

*Plants*
God's Plan for Seeds
*Animals*
God's Plan for Animals
God's Plan for the Seashore
*Health and Human Biology*
God's Plan for Me
*Earth and Space*
God's Plan for Weather
God's Plan for Seasons

## Social Studies

Community Helpers
Children of the World
America: Our Great Country (map studies, famous Americans and places)

## Bible

Hymns/choruses
Memory verses
Bible doctrine
Lessons such as Salvation Series, Genesis, Life of Christ

## Music Arts & Crafts

Traditional, patriotic, fun songs
Basic art concepts and further development of coordination/motor skills

# 1 First Grade

## Language Arts

**Phonics and Reading**
Review of vowels, consonants, blends, one- and two-vowel words, consonant blends
Recognition and use of all phonics special sounds in reading
Spelling rules: doubling consonants, dropping silent *e*, changing *y* to *i*
Oral reading

**Cursive Writing**
Review of letter formation
Daily seatwork practice in all academic areas

**Spelling and Poetry**
Weekly phonics-based word list
Weekly test with phonics
Reinforcement activities
Eight poems committed to memory

**Language**
Capitalization of first word in a sentence, proper names, days of the week, and months of the year
Correct punctuation at the ends of sentences
Recognition of complete sentences

Words using suffixes, prefixes, syllables, compound words, rhyming words, opposite words, same meaning words, and contractions
Alphabetizing of words
Writing complete sentences and short stories
Creative writing

## History and Geography

*This Is My America*
My America's Flag
My America's Freedoms
Symbols of My America
Great People of America

My America Grows
My America Talks
My America Travels
My America Is Beautiful
My America Sings

*This Is My World*
Mexico, Peru, Virgin Islands, Puerto Rico, Bahamas, England, the Netherlands, Norway, France, Germany, Switzerland, Italy, Israel, Egypt, Kenya, India, China, Australia, Guam, American Samoa

## Science

*Health and Human Biology*
Discovering Myself
*Energy*
Discovering My Toys

*Animals*
Discovering Animals
Discovering Insects

*Plants*
Discovering Plants
*Seasons*
Discovering Seasons

## Health, Safety, Manners

*Health*
Eating good foods
Exercising
Rest
Posture
Care of body, clothes, home

*Safety*
At home and away from home
On streets, playgrounds, water

*Manners*
At home, school, church, public

## Arithmetic

Number recognition, counting, and writing 1–1,000
Greatest and least
Counting and writing by tens, fives, twos, and threes
Number sequences
Ordinal numbers
Addition facts through 13 and three-digit addition with carrying

Subtraction facts through 13 and two-digit subtraction
Story problems
Numbers before and after by ones, twos, tens
Between numbers
Counting and combining coins
Telling time to the nearest five minutes
Recognizing odd and even numbers
English and some metric measures

Place value in ones, tens, and hundreds
Unit fractions
Reading a thermometer
Using a ruler
Multiple combinations
Concept of multiplication
Calendars
Reading pictographs and bar graphs
Developing listening skills
Roman numerals

## Bible

Lessons such as Salvation Series, Genesis, Life of Christ, Paul (includes memory verses, hymns/choruses, and Bible doctrine)

## Music Arts & Crafts

Traditional, patriotic, fun songs

Development of art techniques in multiple types of media

# 2 Second Grade

## Language Arts

**Phonics and Reading**
Review of vowels, consonants, blends, one- and two-vowel words, consonant blends
Recognition and use of all phonics special sounds in reading
Spelling rules: doubling consonants, dropping silent *e*, changing *y* to *i*
Oral reading

**Cursive Writing**
Review of letter formation
Guided creative writing
Creative writing journal
Daily seatwork practice in all academic areas

**Spelling and Poetry**
Weekly phonics-based word list
Vocabulary words and definitions second semester
Weekly test
Reinforcement activities
Spelling glossary
Seven poems committed to memory

**Language**
Capitalization of first word in a sentence, days of the week, months of the year, special holidays, people, and places
Correct punctuation at the ends of sentences
Complete sentences, questions, and exclamations
Words using suffixes, prefixes, abbreviations, compound words, rhyming words, opposite words, same-meaning words, singular and plural words, singular possessive words, and contractions
Alphabetizing words and other dictionary skills
Word usage rules
Writing of complete sentences, questions, exclamations, and short stories
Writing letters and thank-you notes
Creative writing

## History and Geography

***America, Our Home***
Our Flag
Our Patriotic Holidays
Our Songs

***The People Who Built America***
The Separatists
America's Indians
The Colonists
America's Pioneers
America's Cowboys
The New Americans

***Tomorrow's America***

## Science

***Plants***
Enjoying the Plant World
***Animals***
Enjoying the Animal World
***Health and Human Biology***
Enjoying Myself and Others

***Earth and Space***
Enjoying our Earth and Sky
***Matter***
Enjoying the Air Around Us

***Energy***
Enjoying the Air Around Us
Enjoying Things That Move
***Conservation***
Enjoying Things That Work Together

## Health, Safety, Manners

***Health***
Posture
Nutrition
Exercise
Rest
Cleanliness
Diseases

***Safety***
At home and away from home
On streets
Around water
During bad weather

***Manners***
Politeness
Kindness
Cheerfulness
Respect
Thoughtfulness
Thankfulness
Patience
Table and telephone manners

## Arithmetic

Number recognition, counting, and writing 1–10,000 and beyond
Numbers greatest and least 1–1,000
Counting and writing to hundred thousands, threes to 36, fours to 48
Ordinal numbers
Addition facts through 18, column addition, four-digit addition with carrying
Subtraction facts through 18, four-digit subtraction with borrowing
Multiplication facts 0–5
Division facts 1–5
Story problems
Multiple combinations
Estimation
Rounding
Numbers before and after by ones, twos, threes, fours, fives, and tens
Counting and combining coins and bills
Telling time to the nearest minute
English and some metric measures
Drawing and measuring lines to one-half inch
Developing listening skills
Calendars
Place value to thousands
Unit fractions
Making change
Reading a thermometer
Reading pictographs, bar graphs, and line graphs
Roman numerals

## Bible

Lessons such as Salvation Series, Life of Moses, Tabernacle, Joshua, Judges, Ruth, Jonah (includes memory verses, hymns/choruses, and Bible doctrine)

## Music Arts & Crafts

Traditional, patriotic, fun songs

Development of art techniques in multiple types of media

# 3 Third Grade

## Language Arts

**Phonics and Reading**
Review of all phonics rules
Oral reading
Reading comprehension

**Cursive Writing**
Cursive writing formation
¾-space high
Creative writing

**Spelling and Poetry**
Weekly word list with vocabulary
Sentence dictation using spelling words
Reinforcement activities
Eight poems committed to memory

**Language**
*Writing Process*
Complete sentences
Creative writing, friendly letters

*Grammar*
Punctuation and capitalization rules
Recognition of simple nouns, subjects, verbs, adjectives
Word usage
Forming plurals and common contractions
Recognition of antonyms, homonyms, synonyms
Dictionary skills

## History and Geography

Continents and oceans of the world
Study of world geography
States of the United States
***Study of our American heritage through the lives of great people***
Columbus
John Smith
Pocahontas
Miles Standish
Squanto
William Penn
Ben Franklin
George Washington
Thomas Jefferson
Daniel Boone
Noah Webster
John Greenleaf Whittier
Robert E. Lee
Abraham Lincoln
Clara Barton
U. S. Grant
Louisa May Alcott
Booker T. Washington
George Washington Carver
Laura Ingalls Wilder
Billy Sunday
Martin Luther King, Jr.

## Science

*Plants*
Exploring the Plant World
*Animals*
Exploring the World of Vertebrates
Exploring the World of Invertebrates
*Health and Human Biology*
Wonderfully Made
*Earth and Space*
Exploring the Ocean
Exploring the Weather
*Conservation*
Exploring the Desert, the Ocean, the Pond, the Forest, the Farmer's Field

## Health, Safety, Manners

*Health*
Posture, Exercise
Nutrition, Diet
Cleanliness
Fighting disease
*Safety*
Fire, Water safety
Home, Play safety
Street safety
First aid
*Manners*
Hospitality
Proper introductions
Telephone manners
Courtesy and respect

## Arithmetic

Recognition of the place value of numbers
Addition facts and checking addition problems with carrying
Subtraction facts and checking subtraction problems with borrowing
Multiplication tables 0–12 and multiplication problems with carrying
How to show a multiplication fact six ways
Division tables 1–12 and working and checking a division problem
Terminology for four processes
English and metric measures
Telling time
Roman numerals 1–1,000
Using a ruler
Solving story problems with up to four steps
Recognizing and solving number sentences
Converting measures and solving measurement equations
Recognizing and working with greater than (>) and less than (<)
Counting money and solving money problems using the decimal point correctly
Solving problems containing parentheses
Fraction terminology and basic understanding of fractions
Averaging numbers
Reading a thermometer
Recognizing geometric shapes
Finding the unknown number in an equation

## Bible

Lessons such as Salvation Series, Parables, Samuel, David, Elijah, Elisha, Daniel, Ezra / Nehemiah, Esther (includes memory verses, hymns/choruses, and Bible doctrine)

## Music Arts & Crafts

Music Theory/Flutophone
Traditional, patriotic, fun songs
Development of art techniques in multiple types of media

# 4 Fourth Grade

## Language Arts

**Reading and Literature**
Oral reading
Reading comprehension
Speed reading
Vocabulary building

**Penmanship**
Review of cursive writing formation through skill practice, word games, original composition, and sentence dictation

**Spelling, Vocabulary, and Poetry**
Weekly word lists with challenging words and vocabulary
Reinforcement activities
Six poems committed to memory

**Language**
*Writing Process*
Letters— friendly, post cards, thank-you notes
Gathering information
Writing with details
Writing an encyclopedia report
Writing book reports
Creative writing
Dictionary skills

*Grammar*
Sentence structure, Kinds of sentences, Punctuation, Capitalization facts, Abbreviations, Possessive words
Recognizing and using all eight parts of speech
Diagraming verbs, nouns, pronouns, adjectives, adverbs
Correctly using troublesome words

## History and Geography

Map study
State history for six weeks
Eight documents memorized
The Years of Discovery
The Years of Exploration
The First Americans
The English Come to America
The New England Colonies
The Middle and Southern Colonies
A Picture of Colonial Life
The Great Awakening
The French and Indian War
The American War for Independence
Building a New Nation
Our Nation Grows
The Civil War
New Frontiers
An Age of Progress
Beyond Our Boundaries
The World Wars
Time for Freedom and Responsibility

## Science

*Plants*
Plants: Provision for Man and Beast
*Animals*
Insects: Miniature Marvels of Creation
Birds: Winged Wonders

*Matter*
Matter: Water, Air, and Weather
*Energy*
Energy: Sound and Hearing

*Earth and Space*
Geology: Planet Earth
Oceanography: Wonders of the Sea
Astronomy: Consider the Heavens

## Health

*Physical Fitness*
Your Body Framework
The Muscle Builder
Your Breathing Machine

*Personal Hygiene*
A Winning Smile
Your Body's Cover
Keys to Good Grooming

*Interpersonal Relationships*
A Healthier You

## Arithmetic

Place value of whole numbers and decimals
Mastery of fundamental operations
Story problems
Estimating answers
English and metric measures
Converting measures within the same system and solving measurement equations
Roman numerals
Addition, subtraction, and multiplication involving fractions
Estimation
Averaging
Factoring
Divisibility rules
Introduction to decimals
Making change
Reading a thermometer
Solving equations using addition and subtraction axioms
Graphs and scale drawing
Basic geometric shapes
Perimeter and area
Using an English and metric ruler
Time lapse

## Bible

Lessons such as Salvation Series, Genesis, Life of Christ, Paul (includes memory verses, hymns/choruses, and Bible doctrine)

## Music Arts & Crafts

Music Theory/Flutophone
Traditional, patriotic, fun songs
Basic drawing and painting techniques, color concepts, and perspective

# 5 Fifth Grade

## Language Arts

**Reading and Literature**
Oral reading
Reading comprehension
Speed reading
Vocabulary building

**Penmanship**
Review of cursive writing formation through skill practice, word exercises, original composition, and sentence dictation

**Spelling, Vocabulary, and Poetry**
Weekly word lists on various categories and vocabulary study
Six poems committed to memory

**Language**
*Writing Process*
Sentences and sentence parts
Synonyms, antonyms, homonyms
Dictionary, thesaurus skills
Letters—friendly, post cards, thank-you notes
Making an outline
Writing a library research paper
Writing book reports
Creative writing
*Grammar*
Punctuation, capitalization, and quotation facts
Recognizing and diagraming all eight parts of speech
Recognizing and diagraming complements
Word usage

## History and Geography

Eight documents reviewed
Geography facts: terms, rivers, capitals, mountains, climate, deserts
Introduction to History and Geography
Fertile Crescent: Cradle of Civilization
Ancient Middle East
Middle East Today
Countries of Central and Southern Asia
Countries of the Far East
Egypt: The Gift of the Nile
Africa Long Ago
Africa in Modern Times
Ancient Greece: Home of Beauty
Rome: Ruler of the Ancient World
Christianity: The Greatest Force in History
England and the British Isles
Other Countries of Western Europe
Countries of Eastern Europe
"Land Down Under" and Beyond

## Science

*Animals*
Amazing Mammals
A Variety of Vertebrates
*Energy*
Force and motion
Electricity and magnetism
Engines: steam, internal combustion, jet propulsion, rocket engines
Light
*Matter*
Water, Air, Weather
*Earth and Space*
Geology: Treasures of the Earth
Oceanography: The Living Sea
Astronomy: The Eight Planets, Stars, Moon, Sun
Conservation: Preserving the Sea

## Health

*Circulatory System*
Life in the Blood
Your Hardy Heart
Pathways through Your Body
*Nutrition and Physical Fitness*
A Balanced Diet
Daily Food Guide
Maintaining Your Proper Weight
Raising Your Rate of Metabolism
Aerobic Endurance
Muscular Strength and Flexibility
*Digestive System*
Digestion Begins in the Mouth
Through the Esophagus, Stomach, Small Intestine, Liver, Pancreas
Absorbing Digested Foods
*Interpersonal Relationships*
Social Acceptance, Mental Awareness, Spiritual Warfare

## Arithmetic

Place value of whole numbers and decimals
Mastery of fundamental operations
Story problems
Problem-solving strategies
Roman numerals
Measuring to the eighth inch
Calculating time
Making change
Rounding off whole numbers, money, decimals, and mixed numbers
English and metric measures
Converting measures within the same system and solving measurement equations
Addition, subtraction, multiplication, and division involving fractions
Finding parts of a whole
Factoring
Divisibility rules
Probability
Addition, subtraction, multiplication, and division involving decimals
Introduction to percents
Reading a thermometer
Negative temperature
Converting from a Celsius scale to a Fahrenheit scale and from a Fahrenheit scale to a Celsius scale
Solving algebraic equations
Graphs and scale drawings
Graphing ordered pairs
Reading schedules and charts
Basic geometric shapes
Perimeter and area
Squares and square roots
Estimation

## Bible

Lessons such as Salvation Series, Life of Moses, Tabernacle, Joshua, Judges, Ruth, Jonah, Samuel, David (includes memory verses, hymns/choruses, and Bible doctrine)

## Music Arts & Crafts

Traditional, patriotic, fun songs

Basic drawing and painting techniques, color concepts, and perspective

# 6 Sixth Grade

## Language Arts

**Reading and Literature**
Oral reading
Reading comprehension
Speed reading
Vocabulary building

**Penmanship**
Review of cursive writing formation
Practice penmanship through creative writing and word exercises

**Spelling, Vocabulary, and Poetry**
Weekly word lists by prefixes, suffixes, and root words
Vocabulary study from the word lists
Eight poems committed to memory

**Language**
*Writing Process*
Writing paragraphs, poetry, outlines, library research paper, narration, journal, book reports, letters, creative writing
Sentences and sentence parts
Fragments, run-ons
Library skills
Student Writers' Handbook

*Grammar*
Punctuation and capitalization rules
Recognizing, diagraming, using all eight parts of speech
Word usage

## History and Geography

Advanced map studies
Geography facts, including the 50 states
Eight documents reviewed

North America: Canada, United States, Mexico and Central America
South America: Continent of Natural Resources, Nations of South America

United States History: The Colonial Heritage, New World's First Republic, U.S. in the Twentieth Century

## Science

*Plants*
Plentiful Plants
*Animals*
Observing Invertebrates

*Earth and Space*
Our Fascinating Earth
God's Great Universe
Exploring Space

*Chemistry*
Matter and Chemistry (atoms, elements, and compounds)

## Health

*Safety and First Aid*
Safety First
First Steps of First Aid

*Growth and Fitness*
Your Changing Body
An Active Lifestyle
*Anatomy*
Endocrine System
Respiratory System
Muscular System
Skeletal System

*A Healthy Mind and Body*
Your Body's Defenses
Lymphatic System
Your Communication System
Nervous System
Skin
Drugs—Use and Abuse
A Healthy Spirit

## Arithmetic

Place value of whole numbers and decimals
Maintaining skills in fundamental operations
Story problems/Problem-solving strategies
Roman numerals
Rounding off
English and metric measures
Converting measures within the same system and solving measurement equations

Adding, subtracting, and multiplying measures
Prime factoring
Fundamental operations involving fractions and decimals
Estimation
Ratios and proportion
Percent
Probability
Graphs and scale drawing/Introduction to statistics
Basic geometric shapes

Perimeter, area, and circumference
Bisecting angles
Reading thermometers
Converting Celsius to Fahrenheit and Fahrenheit to Celsius
Equation solving/Introduction to basic algebra
Latitude, longitude, and time zones
Banking, finding interest, and installment buying
Reading electric and gas meters

## Bible

Lessons such as Salvation Series, Life of Christ, Parables, Elijah, Elisha, Daniel, Esther, Ezra/Nehemiah (includes memory verses, hymns/choruses, and Bible doctrine)

## Music Arts & Crafts

Traditional, patriotic, fun songs

Further development of perspective, introduction to composition, study of accomplished artists

# 7 Seventh Grade

## Language Arts

**Grammar**
Capitalization rules
Punctuation rules
Kinds of sentences and diagraming
Eight parts of speech and their uses
Diagraming eight parts of speech
Sentence structure

**Composition**
The writing process
Outlining
The library
Summaries
Book reports
Research paper
Writing style
Letter writing

**Vocabulary, Spelling, Poetry**
Vocabulary lessons
Weekly spelling lessons
Eight poems memorized

**Literature**
Reading for enjoyment stories and poems by such authors as Frost, Dickinson, Kipling, Bunyan, Alcott, Luther, Dickens, Defoe

## History and Geography

The Beginning
From Sumer to Canaan
Down to Egypt
Israel and Its Land
According to His Will
Greece: A Drama in Two Acts
Rome before Christ
Rome after Christ
Early Church History
Islam versus Christendom
From Empire to Feudalism
An Age of Darkness
The Protestant Reformation
Post-Reformation Europe
The English Nation
An Age of Exploration
The United States
France in the Modern Age
Science & Industry in the Modern Age
The New World of Classics
The British Empire
World War I and the Rise of Communism
Before and During World War II
The Cold War Era
Dawning of a New Millennium
Toward Globalism
Eastern Hemisphere Geography
Parliamentary Procedure
Current events

## Science and Health

Invitation to Science
Plants: Provision for Life
Your Wonderful Body
A Healthy Life
Creation and Science
The Science of Classification
Mammals
Birds
Fish, Reptiles, and Amphibians
Insects and Other Arthropods
Forestry: Generous Giants
Ecology: Harmony in God's Creation

## Sex Education from the Bible

Morality
Dating and marriage
Sins such as adultery, fornication, and homosexuality

## Mathematics

Maintaining skills in fundamental operations (see grades 4–6)
Fractions and decimals
Factoring
Problem-solving strategies
Factorial
Ratio and proportion
Application of percent
Personal finances
Metric system
Probability
Basic geometric concepts
Development and use of formulas
Reading and constructing graphs
Introduction to statistics
Introduction to algebra
Negative numbers
Powers and roots
Time zones, latitude, and longitude
Introduction to plane and solid geometry
Pythagorean rule
Sine, cosine, tangent

## Bible

Lessons/Map Journeys: Exodus, Life of Christ (includes memory verses and hymns)

# 8 Eighth Grade

## Language Arts

**Grammar**
Capitalization rules
Punctuation rules
Kinds of sentences and diagraming
Eight parts of speech and their uses
Diagraming eight parts of speech
Sentence structure

**Composition**
Manuscript form
The writing process
The library
Outlining
Summaries
Book reports
Paragraphs
Descriptions
Research paper
Writing style

**Vocabulary, Spelling, Poetry**
Vocabulary lessons
Weekly spelling lessons
Nine poems memorized

**Literature**
Reading for enjoyment stories and poems by such authors as Stuart, Whittier, Longfellow, Frost, Hawthorne, Sandburg

## History

A New World to Explore
The First English Colonies
New Colonies
Life in Colonial America
Preparation for Independence
Home of the Brave
Land of the Free
From the Appalachians to the Rockies
The Jacksonian Era
The Blessings of Technology
The Second Great Awakening and Its Impact
Education and Culture
The Promise of the West
The Civil War and Reconstruction
The Age of Industry
The Gilded Age
Growing into Greatness
Into the Twentieth Century
The Rise of Big Government
A World at War
Time for Freedom and Responsibility
Troubled Times for America
Which Way, America?
A New Millennium
Western Hemisphere Geography
Current events
National, State, and Local Government

## Science

Introduction to Science
Foundations of Geology
Minerals and Rocks
Weathering and Erosion
Interpreting the Fossil Record
A Survey of the Seas
The Atmosphere
Weather: Water Vapor and Air Masses
Weather: Storms and Forecasting
Consider the Heavens
Man and the Universe
Environmental Science

## Sex Education from the Bible

Morality
Dating and marriage
Sins such as adultery, fornication, and homosexuality

## Mathematics

**Pre-Algebra**
Maintaining skills in fundamental operations (see grades 4–7)
Principles of mathematics
English and metric measures
Basic algebraic concepts
Signed numbers
Powers and roots
Like and unlike terms
Multiplying and dividing monomials
Multiplying and dividing polynomials by monomials
Multiplying polynomials by polynomials
Problem-solving strategies
Word problems solved algebraically
Reading and constructing graphs
Graphical scale drawings
Statistics and probability
Business math
Earning income
Banking
Stocks and bonds
Insurance
Basic plane and solid geometric concepts
Properties of geometric figures
Constructing geometric figures
Perimeter, area, surface area, and volume
Pythagorean rule
Sine, cosine, and tangent
Scientific notation

## Bible

Lessons/ Map Journeys: Journeys of Paul, Joshua, Judges (includes memory verses and hymns)

# 9 Ninth Grade

## Language Arts

**Grammar**
Capitalization rules
Punctuation rules
Kinds of sentences and diagraming
Eight parts of speech and their uses
Diagraming eight parts of speech
Sentence structure

**Composition**
Manuscript form
Writing process
The library
Paragraphs
Outlining
Book reports
Summaries
Descriptions
Research paper
Writing letters
Improving writing style

**Vocabulary, Spelling, Poetry**
Vocabulary lessons
Weekly spelling lessons
Ten poems memorized

**Literature**
Classics on the following themes: truth and wisdom, courage, humility, justice, temperance, beauty, joy and peace, faith and hope, love, and time and eternity
Reading for enjoyment stories and poems by such authors as Hale, Tolstoy, O. Henry. Hawthorne, Alcott, à Kempis, Longfellow, Shakespeare

## Geography

**World Geography**
Introduction to Geography
Asia: The Middle East, Central and Southern Asia, The Far East
Africa: Northern Africa, Tropical Africa, Southern Africa
Europe: Mediterranean Europe, Central Europe, the Low Countries, the British Isles, Scandinavia, Russia and Eastern Europe
Australia, the Pacific Islands, and Antarctica
North America: Canada, the United States, Mexico and Middle America
South America: Andean Countries, Brazil and the Guianas, Southern Countries
Current events

## Science

*Introduction to Physical Science*
*Matter and Energy*
Measuring Matter
States of Matter
Energy
Heat

*Chemistry*
Foundations of Chemistry
Molecules and Chemistry
Chemistry in Action
Science vs. Evolution

*Motion and Waves*
Motion and Forces
Waves and Sound
Light and Color

*Electricity and Magnetism*
Electrostatics
Magnetism
Electricity
Electronics

## Health

Nutrition and exercise
Personal hygiene
Body systems
Mental health
Personal safety
First aid
Disease prevention
Drug abuse
Right relationships
Spiritual growth

## Mathematics

**Algebra I (traditional approach)**
Linear equations in one variable
Algebraic numbers
Graphs
Formulas
Positive and negative numbers
Fundamental operations
Special products and factoring
Fractions
Ratio, proportion, and variation
Linear systems of equations
Powers and roots
Exponents and radicals
Quadratic equations
Numerical trigonometry

## Bible

Study series: Kings of Israel: United Kingdom, Israel's Divided Kingdom (includes memory verses and hymns)

# 10 Tenth Grade

## Language Arts

**Grammar**
Capitalization and punctuation rules, kinds of sentences and diagraming, eight parts of speech and their uses, diagraming eight parts of speech, sentence structure, dictionary skills, usage and diction

**Composition**
Paragraphs, the library and research paper, outlining, improving writing style, book reviews, descriptions

**Vocabulary, Spelling, Poetry**
Vocabulary lessons
Weekly spelling lessons
Ten poems memorized

**World Literature**
Classics by such authors as Dickens, Browning, Millay, Holmes, Poe, Doyle, Yeats, Tolstoy, Herbert
Introduction to art appreciation
Introduction to literary terms and forms: short story; narrative poetry; plot; imagery and figurative language; theme; rhyme and rhythm; emotion; fixed form, continuous form, and free verse poetry; paradox; setting; point of view; tone
Major works in historical order
Authors such as Homer, Aesop, Virgil, Foxe, Luther, Milton, Bunyan, Newton, Machen
Complete novel: *Silas Marner*
Complete play: *Julius Caesar*

## World History and Cultures

*Asia and Africa: The Beginnings of Civilization*
- Foundations
- Sumer
- Middle East
- Other Asian Cultures
- Egypt
- Other African Cultures

*Europe: Beginnings of Western Civilization*
- Greece
- Rome
- Early Church History
- The Byzantine Empire

*The Middle Ages: From the Ancient to the Modern*
- The Dark Ages
- Medieval Culture
- The Rise of Modern Nations

*The Reformation Era*
- The Protestant Reformation
- Post-Reformation Europe
- Post-Reformation Science and Culture

*The Age of Ideas*
- France
- England and America
- The Age of Industry
- The Victorian Era
- Unbelief and Revolution in 19th Century Europe

*The Twentieth Century*
- World War I
- Rise of Communism
- 20th-Century Liberalism
- World War II
- The Cold War Era
- The Rise of Globalism
- Current events

## Biology

*Botany*
- Flowering Seed Plants
- Structure and Function of Leaves
- Flowers, Fruits, and Seeds
- Stems and Roots
- Variety in Plant World

*Human Anatomy and Physiology*
- Fearfully and Wonderfully Made
- Bones and Muscles
- Nervous System
- Nutrition and Digestion
- Circulation and Respiration
- Integumentary, Excretory, and Endocrine Systems
- Disease and the Body's Immune System

*Life Sciences*
- Natural History and Scientific Investigation
- Evolution: A Retreat from Science
- Introduction to Ecology

*Zoology*
- Mammals
- Birds
- Reptiles and Amphibians
- Fish
- Arthropods
- Variety in the World of Invertebrates

*Cellular and Molecular Biology*
- Cytology
- Heredity
- DNA
- Laboratory work: dissections, microscopy, field studies, nutrition, cellular biology, genetics

Laboratory Studies

## Mathematics

**Algebra II (traditional approach)**
Factoring
Fractions
Linear equations in one variable
Coordinate geometry
Variation and dependence
Functions
Systems of equations
Powers and roots
Exponents, radicals, and imaginary numbers
Quadratic and higher equations
Logarithmic functions, exponential functions, and graphing rational functions
Numerical trigonometry
Statistics and probability

## Consumer Mathematics

Buying a Car, Travel, Income, Budgeting, Housing, Food, Clothing, Leisure Activities, Federal Taxes and Records, Banking Investments, The Small Business

## Keyboarding

Basic Key Introduction
Special Symbols and Numbers
Introduction to Business Documents
Business Letters with Special Features
Letter Styles and Unbound Reports
Professional Tables
Document Formatting

## Bible

Study series: Bible Doctrines (includes memory verses and hymns)

# 11 Eleventh Grade

## Language Arts

**Grammar**
Review of grammar, the sentence, and mechanics
Dictionary skills
Diction and usage
Library skills

**Composition**
Writing process, paragraphs, book reviews, outline, character sketch and analysis, essays, paraphrases, summary, research paper, exposition, classification, extended definition, letter and résumé

**Vocabulary, Spelling, Poetry**
Vocabulary lessons
Weekly spelling lessons
9 poems memorized

**American Literature**
Highlights of American literature
Short story
The first books, poets, historians, personal narrators
Introduction to American art
Writers and works of the nineteenth and twentieth centuries
Authors such as Melville, Longfellow, Whittier, Dickinson, Sandburg, Frost, Bryant
Selections from *Moby Dick, Ben-Hur, Song of Hiawatha, Courtship of Miles Standish*
Complete novel: *The Scarlet Letter*

## U.S. History

Discovery and Exploration
The Thirteen Original Colonies
Life in Colonial America
Preparation for Independence
Conflict with England
The War for Independence
The Critical Period and the Constitution
The Federalist Era
The Age of Jefferson
The Nationalist Era
The Age of Jackson
Revival and Missions
Education and Technology
Expansion to the Pacific
Slavery and Secession
The Civil War
Reconstruction
A Nation on the Move
The Triumph of Free Enterprise
Life in the Gilded Age
Politics in the Age of Industry
Expanding World Influence
The Progressive Era
World War I
The Twenties
Depression and the New Deal
World War II
Years of Strength and Stability
Troubled Times
The Reagan Era and the 1990s
America Enters the New Millennium 2000–Present
Current events

## Chemistry

Chemistry: An Introduction
Matter: The Substance of Chemistry
Stoichiometry: Elements and Compounds
Stoichiometry: Chemical Reactions
Gases
Chemical Thermodynamics
Light, Electrons, and Atomic Structure
Periodic Table
Chemical Bond and Intermolecular Forces
Selected Nonmetals and Their Compounds
Selected Metals and Semimetals
Solutions and Colloids
Chemical Kinetics
Chemical Equilibrium
Acids, Bases, and Salts
Oxidation-Reduction Reactions and Electrochemistry
Nuclear Chemistry
Organic Chemistry
Weekly laboratory studies

## Mathematics

**Plane Geometry (traditional approach)**
Formal arrangement of a proof
Rectilinear figures
Circle
Proportions
Similar polygons
Surface polygons
Regular polygons and circles
Solutions of right triangles by means of ratios

## Business Mathematics

Personal finances
Bookkeeping and accounting
Business formulas
Metric-English conversions
Investments
Taxes
Banking
The small business

## Document Processing

Employment Documents
MLA Style Reports
The Itinerary and Agenda Letter with Tables
Business Document Production

## Spanish 1 or French 1

Pronunciation
Word formation
Verse memorization as a witnessing tool
Grammar

*Vocabulary*
School, Clothes, Family, Home, Food, Creation, Vacation

*Application*
Conversation, Reading, Interview, Report, Letter, Oral translation

## Bible

Study series: Life Management, Jesus and His Followers (Gospels) (includes memory verses and hymns)

# 12 Twelfth Grade

## Language Arts

**Grammar**
Review of grammar, the sentence, and mechanics
Dictionary skills
Diction and usage
Research skills

**Composition**
Paragraph, theme, outline, narrative, poetry, extended definition, essay, description, character sketch, vocation project, book reviews, and extemporaneous writing

**Vocabulary**
Vocabulary lessons

**English Literature**
Writers and works from the following periods: Anglo-Saxon, Medieval, Elizabethan, and Puritan
Selections from *Beowulf, Canterbury Tales, and Paradise Lost*
Writers and works from the Eighteenth Century, Romantic Period, Victorian Age, and Twentieth Century
Authors such as Wordsworth, Scott, Coleridge, Burns, Tennyson
Condensed novel: Robinson Crusoe (includes conversion experience)
Complete play: *Macbeth*
Complete novel: *The Pilgrim's Progress*
Ten poems memorized

## Government

*Foundations of the American Republic*
America: A Unique Nation
Government under God
The Shaping of the American Republic
*Our Constitutional Republic*
The Constitution
The Legislative Branch: Congress
The Executive Branch: The Presidency and the Bureaucracy
The Judicial Branch: The Supreme Court
The Bill of Rights
*Our Federal Republic*
Federalism
State Government
Local Government
American Citizen in Action
Current events

## Economics

Everybody's Economics
Economists and Economic Laws
Factors of Production
Laws of Supply and Demand
Productive Market Economy
Good That Competition Does
Efficiency of Production
Why Everybody Needs to Save
What Money Is Good For
Government and the Economy
Successes and Difficulties in the Market Economy
Promise and Performance in the Market Economy
A Look at the Global Economy
A Cheerful View of Our Economic Future

## Physics

*Introduction to Physics*
*Material Substances*
Matter, Liquid, Gaseous, Solid
*Mechanics*
Introduction to Motion, Vectors and Projectile Motion, Forces in Nature, Concurrent Forces, Circular and Periodic Motion, Work and Machines, Energy and Momentum, Rotary Motion
*Thermodynamics*
Heat, Laws of Thermodynamics
*Wave Phenomena*
Waves, Sound, Nature of Light, Reflection of Light, Refraction of Light, Wave Optics
*Electricity and Magnetism*
Electrostatics, Magnetism, Current Generation, Electric Circuits, Electrical Devices
*Modern Physics*
Advanced Physics Concepts, Theories of Relativity
Laboratory Studies

## Mathematics

**Precalculus with Trigonometry and Analytical Geometry**
Trigonometry Applied to Right Triangles
Angles on the Cartesian Plane
Trigonometric Functions of Any Angle
Graphing the Trigonometric Functions
Trigonometric Identities and Formulas
Trigonometric Equations and Inverse Trigonometric Functions
Solving Oblique Triangles
Complex Numbers and De Moivre's Theorem
Intercepts, Symmetry, and Domain
Point of Intersection of Graphs
Parametric Equations
Distance, Slope, and the Straight Line
The Conic Sections
Planes and Surfaces in Three Dimensions
Polar Coordinates
Equations Representing Empirical Data
The First Derivative
Acceleration and the Second Derivative
Application of the 1st and 2nd Derivative
The Integral (Anti-Derivative)

## Speech

*Everyday Speech*
The Place of Speech in Society
Everyday Conversation
Special Types of Conversation
Group Discussion
Parliamentary Procedure
*Interpretation*
Talking with the Body
Interpreting Monologues
Reading with Meaning
Our American Pronunciation
Listening
Interpreting Declamations and Poetry
Storytelling
Extemporaneous Devotionals

## Family/ Consumer Sciences

*Introduction*
Kitchen and Food Safety
Basic Techniques and Equipment
*Healthy Habits*
Nutrition
Consumer Education
*Breakfast*
Milk and Beverages
Eggs
Grains, Breads, and Food Preparation
*Serving*
Table Setting, Meal Service, and Etiquette
Successful Entertaining
*Lunch*
Adding Flavor
Produce
Lunch Time Favorites
*Dinner*
Meat, Poultry, and Fish
Appetizers and Desserts
**Laboratory Work:** Cookies, Nutrition, Breakfast, Muffins, Yeast Bread, Pasta, Cheese Sauce, Vegetables, Salad, Lunch, Supper, Pudding, Cake Reception, Pie Crust, Dinner Party

## Spanish 2 or French 2

Grammar
Conversations
Cultural readings
Stories from the life of Christ (a witnessing tool)
Vocabulary
Composition
Interviews

## Bible

Study series: Genesis—First Things, Revelation and Church History (includes memory verses and hymns)

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