

2019–2020

Homeschool
**Scope &
Sequence**

Preschool through Grade 12

abeka.com 
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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-six 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	6 + 1
2 + 1	7 + 1
3 + 1	8 + 1
4 + 1	9 + 1
5 + 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

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 thirteen 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
Rhyming words
Opposites

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
Sequencing
Same/different
Basic geometric shapes

Fractions—one half, one fourth
Arithmetic symbols—plus, minus, equals

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: Salvation Series, Genesis, Life of Christ, Missionary Stories

Music Arts & Crafts

Traditional, patriotic, fun songs

Basic art concepts and techniques (cutting, gluing, painting) and further development of coordination/motor skills

Language Arts**Phonics**

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

Reading

Oral reading

Comprehension

Vocabulary development

Language

Capitalization of first word in a sentence, proper names, names of God, 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

Chronological

Informational

Original

Spelling and Poetry

Weekly phonics-based word list

Weekly test with phonics

Reinforcement activities

Eight poems committed to memory with poetic elements

Penmanship

Review of letter formation

Connecting letters

Daily seatwork practice in all academic areas

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 $\frac{1}{2}$ $\frac{1}{3}$ $\frac{1}{4}$

Reading a thermometer

Using a ruler

Multiple combinations

Concept of multiplication

Calendars

Reading pictographs and bar graphs

Developing listening skills

Roman numerals

History and Geography**Social Studies**

Community Helpers

America: Our Great Country

Children of the World

This Is My America

My America's Freedoms

Symbols of My America

Great People of America

My America Grows

My America Travels

My America Talks

My America Is Beautiful

My America Sings

This Is My World

Canada, Mexico, Peru, The Bahamas, England, France, Switzerland, the Netherlands, Norway, Germany, Italy, Kenya, Egypt, Israel, India, China, Australia, Japan

Science**Health and Human Biology**

Discovering Myself

Energy, Forces, Machines

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

Bible

Lessons: 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 concepts and techniques in multiple types of media based on the color wheel

Language Arts

Phonics

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

Reading

Oral and silent reading
 Developing accuracy, fluency, comprehension, and analytical skills
 Literary terms and components
 Analysis of literature and illustration

Cursive Writing

Review of letter formation
 Guided creative writing

Writing paragraphs, stories, poems, and journal entries
 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
 Eight poems committed to memory

Language

Capitalization of first word in a sentence, days of the week, months of the year, special holidays, names of God, and proper nouns
 Correct punctuation at the ends of sentences

Complete sentences, 4 kinds of sentences, subjects and predicates, 4 parts of speech
 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 research skills
 Word usage rules
 Writing of complete sentences, questions, exclamations
 Proofreader's marks for capitalization, spelling, punctuation

Arithmetic

Number recognition, counting, and writing 1–10,000 and beyond
 Numbers greatest and least
 Counting and writing to hundred thousands, by threes to 36, by 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, 1, 2, 3, 5, 10
 Division facts 2, 3, 5, 10
 Story problems
 Multiple combinations
 Estimation
 Rounding
 Numbers before and after by ones, twos, threes, fives, tens, twenty-fives, and hundreds
 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 hundred thousands
 Unit fractions, comparing fractions
 Determining change
 Reading a thermometer
 Reading pictographs, bar graphs, line graphs, and circle graphs
 Roman numerals

History

America's flags and freedoms
 Early Americans
 American holidays and songs
 Colonial life
 Declaration of Independence
 American War for Independence

Pioneers
 Civil War
 Railroads and cattle ranching
 American immigrants
 American free enterprise system and work ethic

American inventions, inventors, scientists, and athletes
 Americans of courage and creativity
 Last states and territories added
 Good citizenship

Science

Creator's design, plan, and balance
 Human brain and body systems
 Five sense organs
 Plants: parts and growth
 Animals and their habitats: oceans, ponds, forests, savannas, rainforests

Scientific investigation
 How and where scientists work
 Science tools and safety
 Energy, force, movement
 Work and machines
 States of matter
 Atmosphere and water cycle
 Predicting weather

Planets and solar system
 Stars, sun, moon
 Earth: planet designed for life

Health, Safety, Manners

Health

Posture
 Nutrition/exercise
 Rest/cleanliness
 Preventative care

Safety

Emergency preparation
 Safety at home and away from home

Winter and water safety
 Storm safety

Manners

Courtesy
 Kindness
 Cheerfulness
 Respect
 Thoughtfulness

Thankfulness
 Patience
 Table manners

Bible

Lessons: Salvation Series, Life of Moses, Joshua, Judges, Ruth, Jonah, Favorite Bible Stories, Christmas, Crucifixion and Resurrection (includes memory verses, hymns/choruses, and Bible doctrine)

Music Arts & Crafts

Traditional, patriotic, fun songs

Seasonal and keepsake projects that develop art concepts and techniques using multiple types of media, featuring chalk

3 Third Grade

Language Arts

Reading

Oral and silent reading
 Developing accuracy, fluency, comprehension, and analytical skills
 Reading comprehension
 Vocabulary development
 Discussion for Biblical and personal application
 Analysis of literature and illustration
 Identification of simple text structures
 Application of literary terms and components

Writing

Review cursive formation
 $\frac{3}{4}$ -space high
 Writing original paragraphs, stories, graphic organizers, summarizing exercises, journal entries
 Creative writing prompts
 Research reports

Spelling and Poetry

Weekly word list with vocabulary based on spelling rules and patterns
 Sentence construction using spelling words

Learning strategies and spelling logic
 Reinforcement activities
 Eight poems committed to memory

Grammar

Punctuation and capitalization rules
 Recognition of nouns, verbs, adjectives, adverbs, conjunctions
 Identifying subject and predicate
 Word usage
 Forming plurals and common contractions
 Recognition of antonyms, homonyms, synonyms
 Dictionary skills, glossary skills

Arithmetic

Place value up to hundred millions
 Addition facts through 18, column addition, carrying, checking
 Subtraction facts through 18, borrowing, checking
 Multiplication 0–12 Tables, multi-digit factors with carrying, checking
 Division 1–12 Tables, long division with remainders, checking
 Story problems
 Rounding to nearest ten, hundred, and dollar
 Estimation of sums, differences, products
 Averaging numbers

Roman numerals
 English and metric measures
 Converting measures, solving measurement equations and story problems
 Drawing and measuring lines to the nearest half inch and centimeter
 Telling time to nearest minute, solving elapsed-time problems
 Counting and combining coins and bills; addition, subtraction, multiplication, and division money problems; determining change
 Solving multi-process combinations using parentheses to determine order of operations

Geometric plane and solid shapes, terms, perimeter, area
 Interpreting and constructing bar graphs, line graphs, and pictographs
 Finding the unknown number in an equation
 Comparing values using greater than (>), less than (<), and equals (=) symbols
 Fractions: terminology, mixed numbers, comparing, adding, subtracting, equivalent, reducing to lowest terms

History and Geography

Map reading skills/activities
 States of the United States by region
 Topographical study of the United States
Study of our American heritage through the lives of great people
Founding of America, including
 Miles Standish
 William Penn

Benjamin Franklin
 Benjamin Banneker
 Dalley Madison
Expanding of America (plus Civil War era), including
 Daniel Boone
 Lewis and Clark
 Harriet Tubman

Abraham Lincoln
 DL Moody
Modernization of America, including
 Alexander Graham Bell
 Theodore Roosevelt
 George Washington Carver
 Amelia Earhart
 Ronald Reagan
 Donald Trump

Science

Scientist
 Scientific method
 How/where scientists work
 Tools, graphing, safety
How creation works
 Energy sources/types
 Force/movement/machines
 Structures/magnetism/matter
Earth's Atmosphere
 Weather/water cycle/climates

Earth's surface
 Shape/structure/soil
 Landforms/weathering/surface changes/rock
 Stewardship
Plant world
 Seeds/structures/other ways plants sprout
 Forest types/decomposers/plants that grow from spores
Solar system
 Sun/planets/stars/moon
 Time/space science/our home

Animal world & habitat
 Vertebrates/invertebrates
 Prairie/desert/rainforest/arctic/coral reef/stream
 Food Chains
Human body systems
 Cells/tissue/organs
 Nervous system/sense organs
 Heart & circulatory system
 Lungs & respiratory system
 Teeth & digestive system
 Bones & skeletal system
 Muscles & muscular system

Health, Safety, Manners

Health
 Posture, exercise
 Nutrition, diet
 Cleanliness
 Preventative care
 Spiritual, mental, social health

Safety
 Public safety (includes street and personal safety)
 Recreational safety (includes bicycle and water safety)
 Home safety (includes fire and Internet safety)

Manners
 Showing courtesy through politeness (includes proper introductions), kindness, respect, helpfulness (includes dealing with bullying), obedience (includes refusal techniques), gratitude, phone etiquette, and putting others first

Bible

Lessons: Salvation Series, Samuel, David, Elijah, Elisha, Thanksgiving, Christmas, Daniel, Ezra / Nehemiah, Esther, Crucifixion and Resurrection, Parables (includes memory verses, hymns / choruses, and Bible doctrine)

Music Arts & Crafts

Music theory/flutophone
 Traditional, patriotic, fun songs

Development of art concepts and techniques in multiple types of media featuring charcoal and water colors

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
Diagramming verbs, nouns, pronouns, adjectives, adverbs
Correctly using troublesome words

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

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

Bible

Lessons: Salvation Series, Genesis, Life of Christ, Life of 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 diagramming all eight parts of speech
Recognizing and diagramming complements
Word usage

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

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

Bible

Lessons: Salvation Series, Life of Moses, Tabernacle, Joshua, Judges, Ruth, Jonah, Samuel, Christmas, Crucifixion and Resurrection, Life of 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

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, diagramming, using all eight parts of speech
Word usage

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

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

Bible

Lessons: 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

Language Arts

Grammar

Capitalization rules
Punctuation rules
Kinds of sentences and diagramming
Eight parts of speech and their uses
Diagramming eight parts of speech
Sentence structure

Composition

Essay answer
Summaries
Letters
Informative, narrative, and process essays
Character sketch
Writing style
The writing process
Outlines
Book reports
Paragraphs
Research paper
The library

Vocabulary, Spelling, Poetry

Vocabulary lessons
Weekly spelling lessons
Eight poems memorized

Literature

Stories and poems read for enjoyment by authors such as Frost, Dickinson, Kipling, Bunyan, Alcott, Luther, Dickens, Defoe

Mathematics

Basic 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

World 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
The British Empire
Science & Industry in the Modern Age
The New World of Classics

World War I and the Rise of Communism
Before and During World War II
The Cold War Era
Toward a New Millennium
Change in the New Millennium
Eastern Hemisphere Geography
Parliamentary Procedure
Current events

Life Science and Health

Invitation to science
Plants: provision for life
Your wonderful body
A healthy life

Creation & science
Mammals
Birds
Fish, reptiles, and amphibians
Insects
Assorted invertebrates

Through the microscope
Forestry: generous giants
Ecology: harmony in God's Creation

Bible

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

Language Arts

Grammar

Capitalization rules
Punctuation rules
Kinds of sentences and diagramming
Eight parts of speech and their uses
Diagramming eight parts of speech
Sentence structure

Composition

Manuscript form
The writing process

The library
Outlining
Summaries
Book reports
Paragraphs
Descriptions
Research paper
Writing style
Essay answers
Dialogue
Poems
Narratives
Essays

Vocabulary, Spelling, Poetry

Vocabulary lessons
Weekly spelling lessons
Ten poems memorized

Literature

Reading for enjoyment stories and poems by authors such as Twain, Dickens, Longfellow, Frost, Hawthorne, and Sandburg

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

U.S. History and Geography

A New World to Explore
The First English Colonies
Founding of the 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
Innovations and Inventions
The Second Great Awakening

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?
In Defense of Freedom
Western Hemisphere Geography
Current events
National, State, and Local Government

Earth and Space Science

Introduction to Science
Foundations of Geology
Minerals and Rocks
Weathering and Erosion
Interpreting the Fossil Record

A Survey of the Seas
The Atmosphere
Water Vapor and Air Masses
Storms and Forecasting

Consider the Heavens
Man and the Universe
Environmental Science

Sex Education from the Bible

Morality
Dating and marriage
Biblical sexuality

Bible

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

* Mathematics courses can be taken in a different sequence to meet your scheduling needs.

Language Arts

Grammar

Capitalization rules
Punctuation rules
Kinds of sentences and diagramming
Eight parts of speech and their uses
Diagramming 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

Mathematics*

Algebra I

Real Numbers and Algebra
Linear Equations in One Variable
Linear Equations in Two Variables
Linear Inequalities

Systems of Equations
Polynomial Arithmetic
Polynomial Factoring
Radical Expressions and Equations
Quadratic Equations

Statistics and Probability
Rational Expressions and Equations
Functions

World 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

Physical 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

Bible

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

Language Arts

Grammar

Capitalization and punctuation rules, kinds of sentences and diagramming, eight parts of speech and their uses, diagramming 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*

Mathematics*

Algebra II

Basic Algebra
Equations and Inequalities
Polynomial Equations and Inequalities
Functions

Systems of Equations and Inequalities
Matrices
Exponential and Logarithmic Functions
Triangles and Basic Trigonometry

Trigonometry and the Cartesian Plane
Sequences, Series, and Counting
Probability
Statistics

Consumer Mathematics**

Buying a car, travel, income, budgeting, housing, food,

Clothing, Leisure Activities, Federal Taxes and Records,

Banking Investments, The Small Business

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, Endocrine, and Reproductive 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, nutrition, cellular biology, genetics
Laboratory Studies

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)

* Mathematics courses can be taken in a different sequence to meet your scheduling needs.

** Electives can be taken in different grade-level sequences based on your scheduling needs.

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
 Nine 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*

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

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
 The Periodic Table
 The 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
 Laboratory studies

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

Document Processing**

Employment Documents
 MLA Style Reports

The Itinerary and Agenda
 Letter with Tables

Business Document Production

Bible

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

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

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 First and Second Derivative
 The Integral (Anti-Derivative)

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 Federal Courts
 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
 (Economics Supplement provides personal financial literacy topics throughout the course.)

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

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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