

Language Arts

Grammar

Mechanics
Sentence structure
Capitalization
Punctuation
Writing style (syntax, tone, word choice)
Eight parts of speech and their uses with diagramming
Kinds of sentences and diagramming
Improving communication
Conciseness and subordination
Business emails and memos
Proofreading
Presentations

Composition

Writing process
The library
Paragraphs
Outlining
Book reviews
Summaries
Descriptions
Research paper (persuasive)
Writing letters
Improving writing style
Crafting a thesis sentence
Rhetoric
Dramatizing literature
Short story
Formal essays

Vocabulary, Spelling, Poetry

Vocabulary lessons
Weekly spelling lessons
Ten poems memorized

Literature

Classics on the following themes:
truth and wisdom, courage, power of words, humility, beauty, love, justice, temperance, joy and peace, perseverance, faith and hope, and time and eternity

Reading for enjoyment stories and poems by such authors as Hale, Tolstoy, O. Henry, Hawthorne, Alcott, á Kempis, Longfellow, Shakespeare, Mark Twain, Langston Hughes, James Weldon Johnson, Alexandre Dumas

Mathematics*

Algebra 1

Foundations of Algebra
Linear equations in one variable
Linear equations in two variables
Linear inequalities
Systems of equations

Polynomial arithmetic
Polynomial factoring
Radicals
Quadratic equations
Functions
Rational expressions and equations

Probability and statistics
Optional Build Up concepts -
Retail equations, scientific notation, binomial theorem, rational exponents expanded, exponential functions, geometric sequences, excluded values, Venn diagrams, and communicating data

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

Matter and motion

Introduction to physical science
Measuring matter
Motion and forces
Fluid mechanics

Energy and waves

Energy
Heat
Waves and sound
Light and color

Electricity and magnetism

Electricity
Magnetism
Applying electromagnetism
Electronics

Chemistry

Foundations of chemistry
Molecules and chemistry
Chemistry in action
Science vs. Evolution

Health

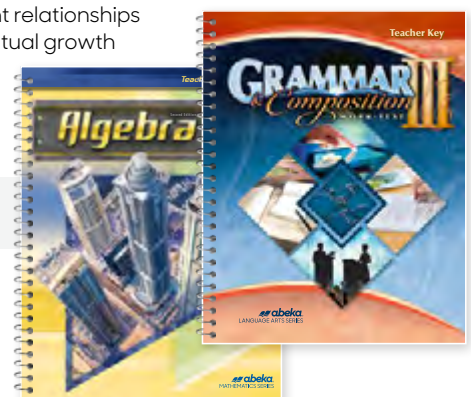
Nutrition and exercise
Personal hygiene
Body systems
Mental health

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)



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

Language Arts**Grammar**

Capitalization and punctuation rules, kinds of sentences, eight parts of speech and their uses, diagramming eight parts of speech, sentence structure, usage and diction

Composition

Library and dictionary skills, outlining, improving writing style, book reviews, research paper, focused paragraphs, essays, descriptions

Vocabulary/Spelling

Twenty spelling/vocabulary lists

World Literature

Introduction to art appreciation
Introduction to literary terms and forms, such as short story; narrative poetry; plot; imagery and figurative language; theme; rhyme and rhythm; sonnet; ethos; pathos; logos; logical fallacies; paradox; setting; point of view; tone

Select poems memorized
Authors such as Homer, Aesop, Tolstoy, Foxe, Milton, Burke, Plato, Bashō, Ovid, Mansfield, Aristotle, Lagerlöf, Rostand, Equiano
Complete novel: *The Scarlet Pimpernel*
Complete play: *Julius Caesar*

Mathematics***Algebra 2**

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

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, microscopy, field studies, 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)

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**Electives can be taken in different grade level sequences based on your scheduling needs. See p. 172.



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

U.S. History

Discovery and exploration
The thirteen original colonies
Life in colonial America
Preparation for independence
Conflict with Great Britain
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, technology, and culture
Expansion to the Pacific
Slavery and secession
The Civil War
Reconstruction
Age of Industry
The Gilded Age
America's expanding influence
The Progressive Era

World War I
The Roaring Twenties
The Great Depression
World War II
Domestic policies of the Cold War
Foreign policies of the Cold War
American society during the Cold War
The eve of the new millennium
America in the new millennium

Chemistry

Chemistry: an introduction
Matter: the substance of chemistry
Elements and Compounds: formulas, names, and measurement
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, Colloids, and Suspensions

Chemical kinetics
Chemical Equilibrium
Acids, Bases, and Salts
Oxidation-reduction reactions and Electrochemistry
Nuclear Chemistry
Organic Chemistry
Laboratory studies

Spanish 1**

Grammar
Pronunciation
Cognates
Verse Memorization
Survival Skills
Country Feature Sections

Vocabulary

Numbers, pronouns, school, home, food, calendar, family, descriptors, transportation, verbs, clothing, hygiene, seasons, creation, technology, farm, body, air travel, sports, areas of study

Application

Conversation, reading, interview, translation, singing, presentation, written exercises

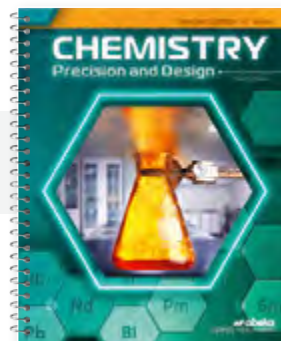
Document Processing**

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)



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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, Poetry

Vocabulary lessons
Ten poems memorized

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

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)

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

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

Spanish 2**

Grammar
Pronunciation
Verse Memorization
Country Feature Sections
Composition

Vocabulary

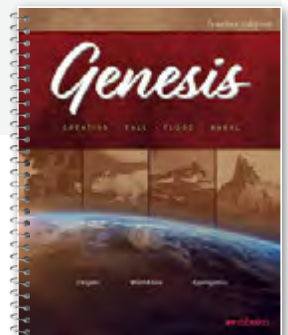
Medical care, family names, school, home, food, family, descriptors, transportation, verbs, technology, recreation, broadcasting, sports, finance, hardware, books of the Bible

Application

Conversation, reading, interview, translation, singing, presentation, written exercises

Bible

Study series: Genesis: Creation, Fall, Flood, Babel; Revelation and Church History (includes memory verses and hymns)



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