

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

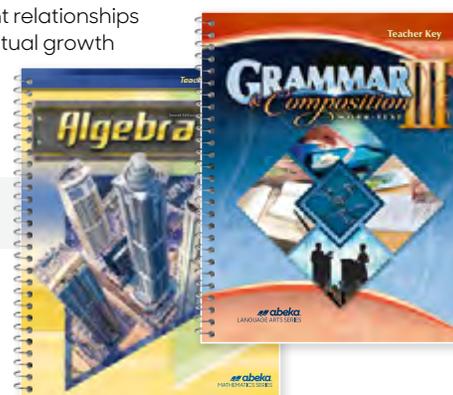
- Nutrition and exercise
- Personal hygiene
- Body systems
- Mental health

- 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

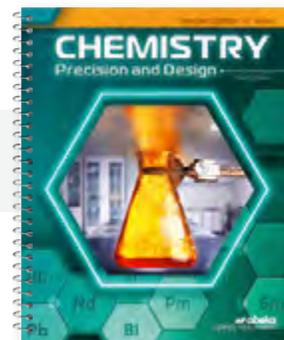
Document Processing**

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

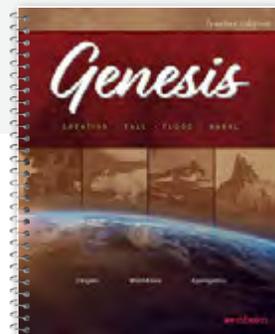
Medical care, family names, school, home, food, family, descriptors, transportation, verbs, technology, recreation, broadcasting, sports, finance, hardware, books of the Bible

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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