

# Grade 12

## Bible Truths How Firm a Foundation!

3rd Edition



- Discusses how we got the Bible, how we know which books belong in the Bible, and how the Bible was transmitted and translated; focuses on inspiration, canonicity, and authority

### In God's Presence

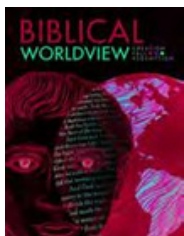
- Presents in story format the principle of Christian music as it relates to God's holiness; uses a study of Chronicles to illustrate the nature of music and to show how Scripture guides musical choices

### God and His Ways

- Surveys the biblical teaching on the doctrines of God, man, Christ, salvation, and the church, focusing on their relevance to everyday life

## Biblical Worldview

Creation, Fall, Redemption



### Scope

- Explains what a worldview is
- Explores the role of presuppositions
- Presents a positive case for a biblical worldview
- Defends the Christian faith against major opponents, especially postmodernism and scientism
- Relates the story of Scripture—Creation, Fall, Redemption—to major academic disciplines and cultural domains

### Sequence

- Tells the story of Scripture in detail, applying it to worldview issues
- Examines gender, marriage, and family from the perspective of a biblical worldview
- Examines the creational structures of government, science, and history, then explores the ways in which the fall has affected these fields and the ways in which they can be pushed back in redemptive directions

- Analyzes the truth, goodness, and beauty triad in culture and the arts, providing examples of fallen culture and art and culminating in a call for students to become sub-creators imaging the ultimate Creator

### Memory Verses

- One memory passage for each of the 27 chapters

### Number of Lessons

- 80 sections in nine units

## Exploring Creation with Advanced Chemistry



This course is designed to build on their foundational understanding of chemistry, so it is essential that they have already completed a high school chemistry class like Apologia's Exploring Creation with Chemistry, 3rd Edition.

Using vivid images and diagrams, illustrative stories and equations, and 28 hours of hands-on labs and experiments, this curriculum will help your student understand (and enjoy!) advanced chemistry concepts that will prepare them for the ACT.

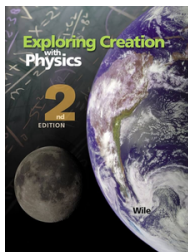
Advanced Chemistry builds on your student's foundational knowledge of chemistry, introducing them to concepts like organic chemistry, organic nomenclature, polymer chemistry, and focusing on the major functional groups. It will also help them understand and master more complex concepts such as:

- Stoichiometry (with limiting reactants)
- Thermodynamics
- Kinetics
- Acids and bases
- Redox reactions
- Solutions
- Atomic structure
- Orbital hybridization
- Molecular orbitals
- Molecular geometry
- Chemical equilibrium
- Nuclear chemistry

Throughout this course your student will connect textbook instruction with hands-on experiments for maximum learning. They will enjoy experimenting with the rate of an iodine clock reaction, distillation, chromatography, the common ion effect, measuring pH changes in a buffer, the electrolysis of copper sulfate, polymerization experiments, and the hydrolysis of sucrose.

While many experiments use household items, the [Advanced Chemistry Lab Set](#) provides essential equipment for your student to be able to complete the experiments.

## Exploring Creation with Physics



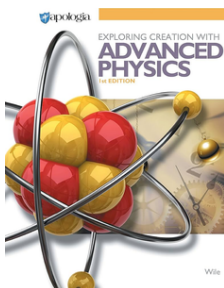
Apologia's award-winning Physics curriculum is written to your student in a conversational tone and cultivates independent learning. Our Exploring Creation with Physics, 2nd Edition, course is designed to provide them with a foundational understanding of physics while also preparing them for college-level physics and the ACT. Some of the key concepts they will learn about in this course are one and two-dimensional motion, Newton's laws and their applications in nature, work and energy, electricity, magnetism, momentum, periodic motion, waves, and optics.

### Curriculum Overview

Because the science of physics is an attempt to explain everything that is observed in nature, this text is an overview of the advances made over the last three thousand years! When your student completes Apologia's physics course, your student will be able to relate velocity, acceleration, time, and displacement, use mathematical equations for one-dimensional motion, understand and apply Newton's Laws, and be able to see the strong connection between math and science.

The Exploring Creation with Physics, 2nd Edition, Softcover Student Textbook is written in a conversational format with the author talking directly to your student. We guide them through key learning strategies like how to think critically about what they are learning, identify important parts of the information presented, take meaningful notes, and complete experiments.

## Exploring Creation with Advanced Physics



Apologia's award-winning Advanced Physics curriculum is written to your student in a conversational tone and cultivates independent learning. This course is designed to build on their foundational understanding of physics, so it's essential that they have already completed a college-prep physics class like Apologia's Exploring Creation with Physics, 2nd Edition. Using accessible diagrams, engaging content, and 28 hours of labs and experiments, this curriculum is crafted to help your student understand advanced physics concepts and prepare them for the ACT.

### Lesson Plans and Materials

The Exploring Creation with Advanced Physics Student Softcover Textbook is written in a conversational format with the author talking directly to your student. We guide them through key learning strategies like how to think critically about what they are learning, identify important parts of the information presented, take meaningful notes, and complete experiments.

### Curriculum Overview

Advanced Physics builds on your student's foundational knowledge of math and science, helping them understand and master more complex and abstract ideas like general and special relativity.

In this course they will learn about other advanced concepts such as:

Kinematics, Dynamics, Rotational motion, Gravity, Oscillations, Waves, Optics, Thermal physics, Electrical forces, Electrical potential, DC circuits, Magnetic forces, Atomic physics, Nuclear physics.

## Discovering Design with Chemistry



Discovering Design with Chemistry is a high school chemistry course designed for students who have completed Algebra I. This independent-study, college-preparatory course covers fundamental aspects of chemistry such as the classification of matter, atomic structure, spectroscopy, chemical bonding, molecular geometry, physical change, chemical change, stoichiometry, solutions, ideal gases, acid/base chemistry, reduction/oxidation reactions, thermochemistry, thermodynamics, kinetics, and chemical equilibrium. Weaving together concepts and their mathematical applications, the course teaches students how to think as a chemist so they can analyze the major changes that occur in matter.

The course contains 46 separate experiments that illustrate various concepts being explored. Many are quantitative in nature, including measuring the wavelength of microwaves, determining the number of water molecules in a hydrated compound, calculating percent yield, measuring the concentration of a hydrogen peroxide solution, determining the concentration of acetic acid in vinegar, measuring the specific heat of a metal, and determining the change in enthalpy for a chemical reaction. Others are qualitative, such as performing flame tests, examining the interference of light waves, comparing metals to nonmetals, exploring Boyle's Law, doing litmus tests, and electroplating.

Throughout the course, the student is shown how chemistry reveals the amazing design that exists all around us. From the details of atomic structure to the makeup of the very air that we breathe, chemistry shows us the marvelous handiwork of God.

# Exploring Cration with Advanced Biology



Apologia's award-winning Advanced Biology curriculum is written to your student in a conversational tone and cultivates independent learning. The lessons and illustrations are also designed to engage them both analytically and creatively.

This course will provide them with an advanced understanding of biology while also preparing them for college-level biology and the ACT. They'll learn about the body's organ systems, ranging from the digestive and respiratory systems to the endocrine and lymphatic systems. It also covers the reproductive system in detail, but is done so with respectful illustrations and descriptions.

## Curriculum Overview:

From the smallest, most imperceptible parts to the largest, and most familiar ones, this course focuses on the anatomy and physiology of the human body and its organ systems. In this course, your student will be intellectually challenged but also supported as they work through science concepts and thought-provoking (and fun!) experiments. Guided through a personalized format, they methodically learn, self-check, and master difficult concepts before moving on.

In this course they will learn:

Foundational Anatomy and Physiology concepts  
Histology (the study of tissues)  
Integumentary and Skeletal systems  
Skeletal Systems Histology and Movement  
Muscular System Histology and Physiology  
Skeletal Muscle System  
Nervous System  
Central Nervous System  
Peripheral Nervous System  
Endocrine System  
Cardiovascular System  
Lymphatic System  
Respiratory System  
Urinary System  
Reproductive System

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## Economics 3rd Edition



### Topic

- Economics

### History

- Biographies of 15 influential economists

### Government

- Comparative economic systems; business and competition; money and banking; national economic concerns, such as productivity, unemployment, and inflation

### Economics

- Survey of basic economic topics, including supply and demand and the circular flow of income and products
- Promotes free-market ideals

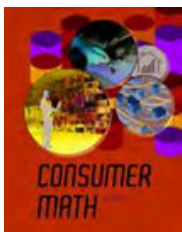
### Religion

- Scriptural principles applied to all areas of economics

### Culture

- Analysis of personal economic concerns, such as budgeting, managing credit, saving, and financial planning

## Consumer Math 3rd Edition



- **Math skills:** fractions, decimals, integers; problem solving using proportions and percent; solving linear equations; negative exponents to prepare for finance formulas

- **Measurement:** customary and SI (metric) units; conversion within and between systems using dimensional analysis; perimeter, circumference, area, volume, and capacity

- **Income:** calculating hours worked from clock times, gross pay including overtime; payroll deductions, including FICA and federal withholding; buying and selling stocks and bonds, including brokerage fees

- **Budgeting:** a standardized budget; an annual budget; reducing annual budget to monthly or weekly; emergency adjustments; revising the annual budget

- **Banking:** checking accounts and deposits; overdraft penalties and protection; service charges; reconciling a bank statement; simple interest; compounding interest; interest on savings using the minimum balance or daily interest methods; effective interest rate; savings programs with regular deposits

- **Borrowing:** simple interest loans; add-on loans and annual percentage rate; discount loans; amortized loans; how credit cards work; how interest is calculated and payments are applied to credit accounts

- **Transportation:** calculating the finance charge and monthly payment for a new car; depreciation; leasing costs including residual value, mileage penalty; car insurance; cost of gas, oil, and tires; scheduled maintenance and repair costs

- **Food:** store specials and coupons; unit prices; calculating freezer payback periods; consumer price index; calorie counting; finding the calories expended in activities

- **Clothing:** planning for seasonal buying; calculating discounts including multiple ones; online shopping; internet buying tips; savings from making clothing; retail marketing of clothing, returns, net profit and gross profit margin; markup rate and breakeven point for retailer

- **Housing:** renting; buying a house, including down payments, closing costs, points, and monthly payments; owner's

equity; building a house, including converting dimensions to scale for a set of plans; finding the area of rectangular lots in acres; calculating the amount of shingles needed from a house plan, allowing for pitched roofs

- **Maintaining a home:** real-estate tax based on millage rates; home-owner's insurance; calculating utility charges for electricity, gas, water, and sewer; communications; calculating house repairs, maintenance, and home improvements

- **Life and health insurance:** mortality tables; term, whole-life, and universal life insurance; health insurance, including payout of benefits; Social-Security retirement benefits

- **Income taxes:** general principles of calculating federal income taxes; 1040EZ, 1040A, and 1040, including extra schedules A and B and Form 2441 for childcare benefits

- **Vacations:** costs of food and lodging; cost of transportation; getting around at the site; travel times across time zones; economizing admissions

## Precalculus 2nd Edition



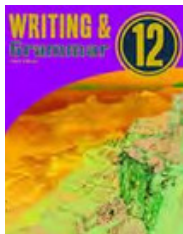
- **Analyzing functions:** relations; linear, quadratic, power, and piecewise functions; continuity, transformations, and operations of functions, parametric representations and modeling with functions
  - **Radical, polynomial, and rational functions:** describing zeros, asymptotes, and end behavior of radical, polynomial, and rational functions and solving related equations and inequalities
  - **Exponential and logarithmic functions:** graphing, applying properties, solving equations, and modeling
  - **Trigonometric functions:** angle and arc measures; trigonometric functions in a right triangle, for other angles, and of real numbers; graphs of trig functions; inverse trig functions
  - **Trigonometric identities and equations:** derive and verify identities; use identities to solve equations; derive and apply the law of sines and law of cosines.
  - **Vectors, polar graphs, and complex numbers:** describe and perform operations on 2-D and 3-D vectors; graph polar coordinates and equations; represent and perform operations on complex numbers in polar form.
  - **Systems and matrices:** using Gaussian elimination; determinants, and inverse matrices to solve systems of equations and inequalities; decomposing into partial fractions
  - **Analytic geometry:** analyzing parabolas, ellipses, circles, and hyperbolas; rotated conics; parametric and polar representations
  - **Sequences and series:** recursive and explicit formulas; arithmetic and geometric sequences; summations; the binomial theorem; mathematical induction
  - **Descriptive statistics:** counting principles and basic probability; graphic representations; measures of central tendency and variability; normal distributions
  - **Inferential statistics:** probability distributions; the central limit theorem; confidence intervals; hypothesis testing; research studies
  - **Limits, derivatives, and integrals:** limit theorems; tangents to the curve; derivative theorems including product, quotient, and chain rules; area under a curve and integration; fundamental theorem of calculus
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## American Government 4th Edition



- Topic**
    - American government
  - Geography**
    - References to political geography
  - History**
    - Historical perspective of the phases of American government
  - Government**
    - Thorough analysis of all levels and all branches of American government
  - Economics**
    - Taxation, government funding, and foreign policy impact on US economy
  - Religion**
    - Scriptural foundation for law and government; influence of Christianity in America
  - Culture**
    - Interest groups; mass media; American political behavior
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## Writing & Grammar 3rd Edition



- Parts of Speech (and Verbals)**
    - Review of all from Grade 11 plus the following new material: verbals—passive participle
  - Sentence Structure**
    - Review of all from Grade 11 plus the following new material: absolute phrase
  - Mechanics**
    - Capitalization; punctuation; appendix of spelling rules
  - Usage**
    - Review of all from Grade 11 plus the following new material: idiomatic use of prepositions
  - Writing Skills**
    - Review of all from Grade 11 plus the following new material: paragraph development—quotation, visual aid
  - Examples of Writing Projects**
    - Description: descriptive essay, comparison/contrast essay
  - Exposition: research report, response to a dramatic scene (literary analysis)
  - Narration: dramatic scene, interior monologue
  - Persuasion: persuasive essay
  - Poetry: sonnet
  - Multimedia: video report
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### Study and Reference Skills

- Review of all from Grade 11

## British Literature 3rd Edition



### Approach

- Historical survey emphasizing close reading skills

### Organization

- Five major literary divisions: the Middle Ages, the English Renaissance, Civil War to Enlightenment, Romanticism to Victorianism, Modern and Contemporary Literature

### Content

- This historical approach to a survey of British literature is organized according to five major units:
  - **The Middle Ages**
    - Part 1: Heroes of Old
    - Part 2: Literature and Community
    - Part 3: Changing Society
  - **The English Renaissance**
    - Part 1: Renaissance Humanism
    - Part 2: Reformation and National Identity
    - Part 3: Lyric and Metaphysical Poetry
    - Part 4: Renaissance Drama

### • Civil War to Enlightenment

- Part 1: Civil War and Restoration
- Part 2: Early Neoclassical Writers
- Part 3: Age of Johnson
- Part 4: Voices from the Outside

### • Romanticism to Victorianism

- Part 1: Signs of Change
- Part 2: The Major Romantics
- Part 3: Early Victorians
- Part 4: Late Victorians

### • Modern and Contemporary Literature

- Part 1: Modern Literature
- Part 2: Postwar and Commonwealth Literature

### Features

- The units are arranged according to major literary periods. Timelines, unit and part introductions, author biographies, and brief headnotes help students build necessary background knowledge of the historical and cultural context from which a literary work arises.
- A before-reading page precedes each selection and introduces

- students to three reading tasks: analyzing a work for its technical features, employing a reading strategy to aid comprehension, and either evaluating a work's ideas from a biblical worldview or creating a new work using the selection as a model. These tasks help students develop writing skills, critical thinking skills, and a deep understanding of the ideas of important literary and historical figures.
- During-reading questions, which appear throughout each selection in the margin, guide students through the three reading tasks.
- Discussion questions, which students answer after reading, require them to demonstrate a high level of understanding of the work's literary concepts and themes.



# Biblical Worldview: Creation, Fall, Redemption



## Philosophy

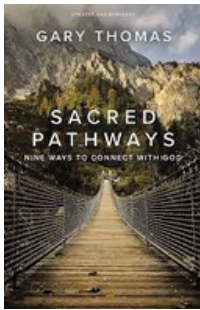
We believe “that the Bible is the unique, inspired, inerrant Word of God and that God’s Word is fundamental to every aspect of the Christian home, church, and school. As such, all subjects are taught from a biblical perspective and are interwoven with scriptural principles and examples.”

Our motto, “Educating Minds; Transforming Hearts for Christ,” applies across the four major areas of human growth. As Luke 2:52 states, “...and Jesus increased in wisdom (intellectual) and stature (physical), and in favor with God (spiritual) and man (social).” RCCA seeks to develop godly character and to enhance the student’s appreciation of knowledge and beauty in all facets of life

## ASPECTS OF BIBLE AND SPIRITUAL FORMATION:

- Similarly, we can group several complementary aspects of learning in the scope of Bible and Spiritual Formation:
- Knowledge and Understanding – This includes:
    - Knowledge of God’s truth revealed in the Bible;
    - Background and context of the Bible;
    - Knowledge about spiritual growth;
    - Biblical and Christian history;
  - Current state of the Kingdom: churches, denominations, missionary progress, various kinds of ministries.
    - Reasoning and Responding– This includes:
      - How to study and apply the Bible;
      - How Biblical truths fit together (“theology”);
  - Responding to God personally through Jesus Christ – faith and spiritual growth;
    - Developing a Biblical worldview and Christian approach to life;
  - Discerning how to respond to a variety of issues in society around us from that Biblical worldview.
    - Personal Application and Engagement with Others – This includes:
      - Developing habits of seeking God and growing spiritually in Christ;
  - Growing in private prayer as well as praying with others, for others, and for other kingdom concerns;
    - Developing habits of sacrificially serving others for Christ’s sake;
  - Growth in building godly relationships and how to resolve conflicts;
  - Stimulating dreams and aspirations of how to make an impact for Christ in relationships, family, church, workplace, society, and the world.

# Sacred Pathways



## SEQUENCE AND CURRICULUM

11th grade & 12th grade Bible (presently taught concurrently and alternated each year)

### Year #1 Biblical Worldview / Ethics/

#### Philosophy

Main Curriculum: Biblical Worldview: Creation, Fall, Redemption by BJU Press (student text; printed teacher text; presentation slides; memory verse schedule; suggested applications).

#### Other:

Peacemakers 2-week refresher and deeper emphasis on how to resolve conflict Biblically.  
Mere Christianity by C.S. Lewis: 2-week mini-study of key portions of this book.  
Worship: Rediscovering the Missing Jewel by Ronald Allen & Gordon Borrer  
Other topics at teacher’s discretion

### Year #2 Spiritual Formation

Main Curriculum: Sacred Pathways by Gary Thomas. Use this as a skeleton for discussing and trying out various paths for continual spiritual growth over a lifetime.

#### Other:

Chasing Love: Sex Love, and Relationships in a Confused Culture by Sean McDowell  
Missions:
 

- excerpts from Perspectives on the World Christian Movement, by Ralph Winter and Steve Hawthorne (eds).
- Missionary stories and connections as time allows

 Other topics at teacher’s discretion