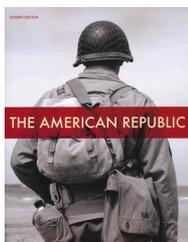




EIGHTH GRADE

BJU Press The American Republic



Topic

- American history

Geography

- Geographic development of the United States through land acquisition; profiles of major geographic regions

History

- Introduction to the history of America

Government

- Republican form of government under the Constitution

Economics

- Development and effects of inventions and industries;

successes and problems of the free market

Religion

- Influence of Christianity on American history; influences of religious diversity

Culture

- Interaction of people, ideas, and cultures in America

BJU Press Pre-Algebra



- **Integers:** absolute value; operations; exponents; order of operations; scientific notation
- **Expressions:** real-number properties; evaluating and simplifying expressions; translating word phrases; rounding and estimating results of operations
- **Equations:** solving two-step equations; removal of parentheses; subsets of the real numbers; irrational numbers; solving linear inequalities; applying equations and inequalities
- **Number theory:** prime factorization; GCD and LCM; arithmetic and geometric sequences; number bases other than 10, including hexadecimal; operations in other bases
- **Rational numbers:** forms of; ordering fractions and decimals; decimal equivalents of fractions; conversion of repeating decimals to fractions; ratios and

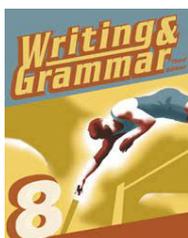
proportions; subsets and properties of real numbers

- **Operations on rational numbers:** operations; evaluating and simplifying expressions; solving equations involving rationals; operations in scientific notation
- **Percents:** solving percent equations; applying percents; scales; discount, markup, commissions, tips, and interest (including compound); percent change
- **Applications:** equations with variables on both sides; writing and solving equations and inequalities
- **Relations and functions:** coordinate plane; functions; graphing linear functions and linear inequalities; slope; direct variation
- **Statistics and probability:** population and sample; mean, median, and mode; scatterplot; quartiles; box-and-whisker; stem-and-leaf; histograms; choosing the correct

type of graph; permutations; combinations; probability

- **Radicals:** square roots; radical equations; equations with radicals; equations of the form $ax^2 + b = c$; Pythagorean theorem; operations with radicals; cube roots
- **Geometry:** pairs of angles; polygons; perimeter and circumference; congruence and similarity; 30–60 and 45–45 right triangle ratios; distance and midpoint formulas; symmetry and transformation
- **Areas and volumes:** areas of quadrilaterals, triangles, and circles; relation of lengths and areas of similar regions; surface areas of prisms, cylinders, pyramids, cones, and spheres
- **Polynomials:** definition of a polynomial; operations with polynomials, including multiplying binomials and dividing a polynomial by a monomial

BJU Press Writing & Grammar



Parts of Speech (and Verbals)

- Review of all from Grade 7 plus the following new material: verb—progressive tense; indicative, imperative, and subjective

Sentence Structure

- Review of all from Grade 7 plus the following new material: adjective clause, adverb clause

Mechanics

- Review of all from Grade 7 plus the following new material: punctuation—parentheses, brackets, dashes, ellipses

Usage

- Review of all from Grade 7

Writing Skills

- Review of all from Grade 7 plus the following new material: six traits of writing, proofreading symbols, writing different types of paragraphs (definition, process, descriptive, compare-and-contrast, argumentative), writing an anecdote, visual representation, writing poetry, writing a business letter, expanding and combining (with parallel structures, with adjectives, with adverbs, with

prepositional phrases, with participial phrases, with infinitive phrases)

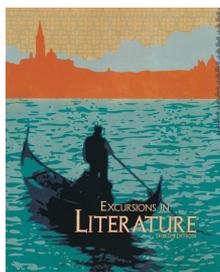
Examples of Writing Projects

- Informative writing, narrative writing, argumentative writing, multigenre project

Study & Reference Skills

- Study skills are incorporated into Student Handbook. Reference skills are incorporated into a comprehensive research chapter

BJU Press Literature



Approach

- Thematic

Organization

- Five themes: maturity, wisdom, generosity, freedom, nature

Content

- Genres represented: biblical narrative, biography, drama, epistle, essay, fantasy, folktale (fable, fairy tale, myth), graphic novel, historical fiction, hymn, informational text, legend, letter, memoir, narrative nonfiction, novel adaptation, novel excerpt (includes fantasy novel excerpt, historical novel excerpt, and verse novel excerpt), poetry, science fiction, short story, speech

Cultures Represented

- Australian (indigenous), African American, Caucasian American, Chinese American, Hispanic American, Native American,

Burmese, Chinese, Cuban, British, French, German, Irish, Ugandan, Yiddish, Japanese, European Jewish

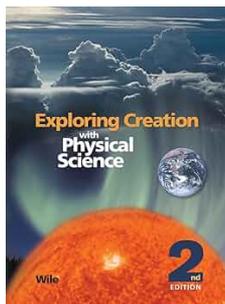
Features

- This book is arranged by thematic units. Each unit opener contains an illustration, a unit theme, and a unit Essential Question. Selections within each unit require reading with discernment, a goal toward which all literature teachers hope to direct their students.
- A Before Reading page precedes each selection and introduces students to a Big Question, the genre of the text selection, and two reading tasks: analyzing a work for its technical features (Author's Craft) and employing a reading comprehension strategy (Reader's Craft). The two tasks help students develop writing

skills and critical-thinking skills. The Big Question provides an opportunity for biblical worldview shaping.

- During Reading questions, which appear throughout each selection in the margin, guide students through the two reading tasks.
- After reading, students answer Think & Discuss questions, many of which require them to demonstrate a high level of understanding of the concepts traced throughout their reading and the lesson.
- Unit Review pages ask questions about key terms and concepts. The text also includes short biographical sketches of individual authors as well as writing opportunities.
- The teacher edition includes lesson plans for the novel *Across Five Aprils*.

Apologia Physical Science



This science course teaches atomic structure, the periodic table, chemical bonds, reactions, motion, forces, energy, waves, sound, light, electricity, magnetism, Earth's structure, weathering, and atmosphere. While your student will complete all experiments, only one formal lab report is required per module. In our curriculum, your student is instructed on both informal and formal lab report writing techniques and will have a clear understanding of how to document all of their work in their notebooks. Don't worry! We walk through and explain every step and why it is essential.

Topics include:

- Basic Science
- Chemistry
 - Properties and States of Matter
 - Atomic Structure and the Periodic Table
 - Chemical Bonds
 - Reactions and Energy
- Physics
 - Motion – Forces
 - Energy
 - Waves and Sound
 - Light
 - Electricity and Magnetism
- Earth Science
 - Our Earth
 - Our Atmosphere and Beyond
- Chemistry and Physics in the Life Sciences
- Physical Science Research