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All high school subjects (PACEs 1097-1144) are one full credit unless otherwise indicated.

Math 1 (Grade 1) (PACEs 1001-1012)

The student:

- Reviews and learns numbers in symbol, name, and **number words** from zero to ten.
- **Counts** and **writes** from zero to one hundred.
- Solves simple **addition, subtraction, and word problems.**
- Learns to **tell time.**
- Learns the concept of **money** and counting coins with pennies, nickels, and dimes.
- Reviews **length** comparison: longer and shorter.
- Learns liquid **measurements:** cups, pints, and quarts.
- Reviews recognition of **basic shapes.**
- Reviews **order of numbers:** before, between, after; and contrasting numbers—same, not the same, more than, and less than.

Math 2 (Grade 2) (PACEs 1013-1024)

The student:

- Continues learning to **add** and **subtract**, to carry and borrow 2- and 3-digit numbers, solves word problems, and works addition and subtraction facts vertically and horizontally.
- Completes **timed drills** and **oral drills.**
- Learns to relate **multiplication** to addition.
- Counts and writes by twos, fives, and tens; counts and writes from 1-500; writes numbers in **place values** of 1s, 10s, and 100s; and writes numbers on a calendar.
- Recognizes and writes **number words.**
- Learns to identify **odd** and **even** numbers.
- Reviews **telling time.**
- Reviews numbers that are **greater than** and **less than.**
- Learns to relate **cent signs** to pennies, nickels, dimes, and quarters.
- Learns to **measure** objects in inches and centimeters, and compares equivalents for cups to pint, pints to quart, and quarts to gallon.
- Recognizes and constructs **geometric shapes.**

Math 3 (Grade 3) (PACEs 1025-1036)

The student:

- **Adds** 3-digit to 3-digit numbers, **subtracts** 3-digit from 3-digit numbers, and solves word problems with carrying and borrowing.
- Learns **multiplication facts** 1-9 with timed drills and oral drills.
- Reviews numbers in **place values** of 1s, 10s, and 100s; writes numbers to count on a number line; reviews and writes on charts; and learns to use picture tables to determine height.
- Reviews **telling time** and learns half-hour, quarter-hour, and 5-minute increments.
- Learns **Roman numerals.**
- Reviews **measurements** of weight, liquid, and length; converts inches to feet, feet to yards; reads scales in pounds; and learns the abbreviations in., ft., and yd.
- Writes **ordinals** first through tenth.
- Learns to **divide** objects or **sets** into halves.

Math Builder, a computerized mathematic flash card program, is also available for additional reinforcement and drill.

Math 4 (Grade 4) (PACEs 1037-1048)

The student:

- Learns **additional multiplication facts;** 10 and 11 times tables, and simple division skills; identifies and uses relationships between operations, such as division as the inverse of multiplication, to solve problems.
- Matches word sentences with number sentences and reviews **number words** and symbols.

- **Rounds numbers** on a number line to the nearest 5 and 10.
- Reviews and learns **Roman numerals** 1-50 and word problems converting to numerals.
- Learns to borrow and **subtract** 3-digits minus 3-digits, checks by addition, and borrows and subtracts from 10s, 100s, and 1000s.
- Learns to use the **terms** addend, sum, minuend, subtrahend, difference, multiplier, multiplicand, and product to match correct numbers in problems.
- Learns **fractions** through shaded parts of a circle, learns equivalency in fractions, and adds and subtracts like fractions.
- Learns to **add** and carry to 10s, 100s, and 1000s—4-digits and 4-digits.
- Reviews and demonstrates understanding of basic **money** concepts and skills.
- Reviews **converting** inches to feet, feet to yards, and inches to yards; reading a scale in pounds; and converting cups to pints, pints to quarts, and quarts to gallons.

Math 5 (Grade 5) (PACEs 1049-1060)

The student:

- Defines and identifies new **math terms**: quotient, dividend, numerator, and denominator.
- Uses addition, subtraction, division, and multiplication with **fractions**; identifies proper and improper fractions; and reduces fractions to lowest terms.
- **Factors** numbers from least to greatest, and finds the Greatest Common Factor (**GCF**) and the Least Common Denominator (**LCD**) of fractions.
- Recognizes the **place value** of each digit in numbers up to thousands.
- Learns to represent and compare whole numbers and **decimals**.
- Learns the **commutative properties** of addition and multiplication and **estimation**.
- Compares numbers, sentences, words, decimals, and fractions using **>** and **<** **symbols**.
- Defines and identifies **prime numbers**.
- References **charts, pictographs, and line graphs**.
- Writes **Roman numerals** 1-399.
- Learns basic **geometry**—points, lines, rays, and angles; identifies geometric shapes; identifies similar and congruent figures; and finds the volume, perimeter, and area of figures.
- Learns about **probabilities** and **ratios**.
- Processes **simple unit conversions** such as centimeters to meters within a system of measurement.

Math 6 (Grade 6) (PACEs 1061-1072)

The student:

- Learns the **properties of addition and multiplication**—commutative, associative, identity, and zero.
- Works with **exponents** and is introduced to **expanded notation using exponents**.
- **Rounds** and **estimates** large numbers and works **mental estimation** problems.
- Learns **factoring rules (divisibility rules)**; identifies **prime numbers** and **composite numbers**.
- Reviews **fractions** and fraction terms; adds, subtracts, multiplies, and divides fractions; changes **fractions to decimals** using long division; and converts **fractions to percents**.
- Reviews **decimals**; adds, subtracts, multiplies, and divides decimals; defines **repeating** and **terminating** decimals; and changes **decimals to percents**.
- Relates **percents** and decimals to fractions, learns **common percents**, changes **percents to decimals**, and finds **percent of a number**.
- Is introduced to **integers**.
- Learns **order of operation**.
- Learns the terms **equations** and **inequalities** when comparing number sentences (**<**, **>**, **=**).
- Defines a **variable** and **solves equations** (one variable) using inverse operations.
- Works with **ratios** and **proportions**, and uses proportions to solve problems.
- Finds the **probability** of an event, and expresses probability as a ratio.
- Uses critical thinking skills to **solve word problems**.
- Defines and interprets circle, line, bar, and double-line **graphs**.
- Builds **geometric** knowledge; measures angles; finds the perimeter, area, and volume; and defines the parts of a circle.
- Rounds **money to find estimated costs** and solves money problems.
- Compares **English** and **metric measurements**, and carries out conversions.

Math 7 (Grade 7) (PACES 1073-1084)

The student:

- Reads, writes, and works with **whole** and **mixed numbers**, integers, and common fractions.
- Learns the proper **mathematical terminology**—dividend, multiplicand, product, simplify, minuend, quotient, numerator, and denominator; how to change fractions and decimals to percent; how to find the number when a percent is known; and data and graphs, mean, mode, median, range, rank, and read.
- Is introduced to **business** and **consumer arithmetic**—profit and loss, commission, discounts, bills and receipts, and invoices with discounts; ratio, proportions and percent.
- Studies **business methods** needed to function at home—keeping cash and household accounts, budgets, insurance, and the reading of gas and electric meters.
- Learns about **banking**—savings and checking accounts, deposits, interest, and loans.
- Reviews **English** and **metric** units of length, volume, weight, and temperature.
- Reviews basic **geometry** concepts and symbols, uses a protractor and compass to find perimeter and area of shapes and solids.
- Is introduced to **equations**—variable, sets, and set notation; vocabulary, symbols and word problems.

Optional resource: Math 1075 (video)

Math 8 (Grade 8) (PACE 1085-96)

The student:

- Uses **formulas**.
- Solves **equations**—one, two, and opposite operations with fractions and written problems.
- Reviews **fractions**—addition, subtraction, multiplication, and division; proper, improper, and mixed numbers; simplifying and comparing; and decimals to the millionths place.
- Finds **volume** and **surface** areas of solid figures—prisms, cylinders, pyramids, cones, and spheres.
- Reviews basic **geometry** and geometric terms.
- Prepares and uses **tables** and **graphs**.
- Learns about **rates**, time, and distance.
- Uses the **Pythagorean theorem**—using right triangles to find height and distance, and finding the hypotenuse of a right triangle.
- Learns about **square roots**.
- Uses **positive** and **negative numbers**—adds, subtracts, changes, and plots on a line graph.
- Reviews **English** and **metric** units of length, volume, weight, and temperature—compares and converts.

Algebra I (Grade 9) (PACES 1097-1108)

Basic algebraic concepts (definitions, signs, and expressions) are introduced in a carefully structured way to make the learning material understandable. This curriculum includes principles for logically solving, transposing, and canceling algebraic equations.

The student works with:

- Monomial and polynomial expressions.
- Algebraic addition, subtraction, multiplication, and division.
- Complex fractions: reducing, simplifying, and solving word problems.
- Algebraic graphs—linear equations, consistent, inconsistent, and dependent in word problems.
- Quadratic equations, factoring, positive and negative numbers, averages, percents, interest, ratios, and proportions, and translating word problems to algebraic equations.
- The Pythagorean theorem.

Twelve videos reinforce this course.

Geometry (Grade 10) (PACES 1109-1120)

Prerequisite: Algebra I

This course expands the deductive reasoning powers of the student as he reviews previously learned material and is introduced to new concepts.

The student learns:

- To reason logically and systematically.

- Properties and theorems and how to use them for solving problems—converse and construction, parallelograms, tangency, exterior angle; Hinge, Pythagorean, and regular polygon theorems.
- Types of shapes, angles, arcs, and chords, and learns to find the circumference and area.
- Tangents, secants—angles formed and intersecting within a circle.

Twelve videos reinforce this course.

Algebra II (Grade 11) (PACES 1121-1132)

Prerequisite: Algebra I

This advanced study in algebra includes parabolas, hyperbolas, permutations, logarithms, and matrices; operations with radicals and fractions; and solving equations. The approach is practical, helping the student use his reasoning abilities.

The student learns to operate with:

- Real number axioms and applications.
- Radicals and complex numbers.
- Fractions and operations, equations and decimals.
- Equations—linear and graphs, quadratic solutions, relations and polynomial functions.
- Arithmetic and geometric sequences and series, and sentences with one variable.
- Multiplication of polynomials, factoring monomials, squares, groups, and open sentences.
- Computations, exponential functions, logarithms, and antilogarithms; and permutations, combinations, binomial expansions, and probability.
- Matrices and their properties, determinants of equations, and systems of equations.

Twelve videos reinforce this course.

Trigonometry (Grade 12) (PACES 1133–1138)

Prerequisite: Geometry and Algebra II

Trigonometry is a six-PACE, interactive learning experience for the student. Through the use of a graphing calculator, the student is able to solve realistic problems about our universe.

The student learns to:

- Find unknown measurements involving triangles.
- Determine the values of the trigonometric functions for any angle.
- Establish and use trigonometric identities.
- Graph trigonometric functions with and without a graphing calculator.
- Use the inverse trigonometry functions to find angle measures.
- Solve equations involving the trigonometric functions.
- Graph functions in the polar plane.
- Perform operations with complex numbers.
- Recognize how trigonometry models our world.

This course reflects the use of a TI-83 Plus or TI-84 Plus graphing calculator.

English 1 (Grade 1) (PACEs 1001-1012)

The student:

- Reviews **consonant** and **vowel sounds**.
- Is introduced to **reading** and **writing** of word families and sentences.
- Studies **blends, diphthongs, ending sounds, and suffixes**.
- Develops **reading comprehension skills**.
- Copies sentences using proper **capitalization** and **punctuation**.

English 2 (Grade 2) (PACEs 1013-1024)

The student:

- Reviews **phonics**—identifies vowels, consonants, blends, diphthongs, and suffixes.
- Learns **punctuation**—telling and asking sentences, capitalization, quotation marks, and apostrophes.
- Learns **suffixes**—s, -ed, -ing, and -er.
- Is introduced to **compound words**.
- Studies **confusing words**—no/any, can/may, is/are, does/do, to/too/two.
- Discovers **parts of speech**—nouns, prepositions, verbs, and adverb concepts.
- Is introduced to **word order** and **concepts**—sequences, same/opposite, homonyms, rhyming words, and poetry.
- Writes **friendly letters**.
- Practices **writing** sentences.
- **Reads** paragraphs for comprehension.
- Is encouraged in **character development** through examples given in each PACE.

English 3 (Grade 3) (PACEs 1025-1036)

The student:

- **Alphabetizes** words.
- Learns about sentence types—**declarative, interrogative, and exclamatory** sentences.
- Learns about basic **punctuation marks** (. ? ! , ' " ”).
- Practices **cursive writing**—lower case and capital letters.
- Learns **parts of speech**—nouns (common, proper, singular, and plural), pronouns, adjectives, verbs (action and state-of-being), and prepositions.
- Uses **compound words**.
- Understands **word concepts**—antonyms, synonyms, homonyms, confusing words, and confusing word pairs (a/an, learn/teach, sit/set, let/leave, their/there, its/it's, and can/may).
- Writes **letters** and addresses **envelopes**.
- Is encouraged in **character development** through examples given in each PACE.
- Learns about rhyming words and poems.

English 4 (Grade 4) (PACEs 1037-1048)

The student:

- Continues **cursive writing**.
- Practices **alphabetizing** and increases his comprehension of **vowels** and **consonants**.
- Reviews and expands knowledge of the **parts of speech**—nouns (common, proper, singular, plural, and subject nouns), verbs (action, state-of-being, and helping), pronouns, adjectives, adverbs, prepositions, conjunctions, and interjections.
- Develops paragraph **writing skills** and reviews the **types of sentences**—declarative, interrogative, imperative, and exclamatory.
- Identifies and practices using **ending punctuation**.
- Learns the use of a **colon** and an **apostrophe** in contractions and possessives.
- Begins to use the **dictionary**.
- Learns proper **letter writing** form.
- Reviews and expands **word concepts** (**antonyms, synonyms, homonyms**), confusing words, word pairs, and **contractions**.
- Is encouraged in **character development** through examples given in each PACE.

English 5 (Grade 5) (PACEs 1049-1060)

The student:

- Expands his knowledge of nouns and verbs and learns the **agreement of subjects and verbs**.
- Learns to **diagram** the subject, action verb, state-of-being verb, predicate noun, adjectives, adverbs, and direct object of a sentence.
- Identifies and correctly uses **verbs** that are often misused, **modifiers**, and **pronouns**.
- Changes a given list of **verbs from singular to plural**.
- Reviews **pronouns** and identifies the kinds (personal, interrogative, demonstrative, and indefinite) and cases (subjective, objective, and possessive).
- Recognizes **simple** and **complete subjects** and **predicates**.
- Is introduced to **predicate adjectives** and **comparative degrees of adverbs**.
- Recognizes **complete sentences** and **fragments**, learns four **sentence patterns**, and develops paragraphs.
- Learns and practices **punctuation** rules including **quotation marks**, **underlining** titles, etc.
- Increases **word concepts** (antonyms, synonyms, homonyms) and learns about heteronyms.
- **Writes** business and friendly letters.
- Demonstrates a mastery of proper **capitalization**.
- Is encouraged in **character development** through examples given in each PACE.

English 6 (Grade 6) (PACEs 1061-1072)

The student:

- Increases **word concepts**—antonyms, synonyms, homonyms, and heteronyms.
- Reviews **nouns**—common, proper, compound, singular, plural, possessive; and learns about collective nouns and nouns in apposition.
- Expands **verb** knowledge (action, linking, state-of-being, regular and irregular) to include verb tenses (present, past, future), and conjugation of all six tenses; verb agreement; and the review of troublesome verbs (learn/teach, sit/set, lay/lie, rise/raise).
- Identifies **pronouns**—personal (subjective and possessive), interrogative, demonstrative, relative, reflexive, and indefinite.
- Builds upon **parts of speech**—comparisons using adjectives and adverbs, prepositions and phrases, coordinating conjunctions, interjections, and diagramming.
- Strengthens sentence **writing** by using sentence patterns, interesting words, and exact nouns; recognizes subject and verb agreement; and types of clauses.
- Practices writing **paragraphs** and begins **outlining** and **research**.
- Uses **simple**, **compound**, and **compound-complex sentences** with effective coordination and subordination of ideas to express complete thoughts.
- Learns to identify types of sentence patterns and clauses.
- Is encouraged in **character development** through examples given in each PACE.

English 7 (Grade 7) (PACEs 1073-1084)

The student:

- Identifies, reviews, and diagrams simple, compound, and complex **sentence patterns**.
- Reviews **eight parts of speech** and studies prepositions, conjunctions, and interjections.
- Is introduced to **infinitives** and **gerunds**.
- Reviews **principal parts of regular and irregular verbs**—perfect **tenses**; **conjugation** of all six tenses; **progressive** verb forms; transitive and intransitive verbs; and subject-verb agreement.
- Increases **noun** study—exact, compound, collective, plural, and possessive.
- Develops use of **personal pronouns**—nominative, objective, and possessive case; **demonstrative**, **interrogative**, **relative**, **reflexive**, and **indefinite pronouns**.
- Applies **adjectives** as indefinite pronouns, nouns, participles, and predicate adjectives.
- Develops **writing** and **communication skills** through use of sentence variety, outlining, paragraph writing, composition writing, and **proofreading**.
- Works with **paragraph structure**—indenting, main idea, topic sentence, summary, dependent and independent clauses, and phrases.
- Is encouraged in **character development** through examples given in each PACE.

English 8 (Grade 8) (PACEs 1085-1096)

The student:

- Reviews **verbs** and **verb tenses, progressive form,** and the **emphatic mood.**
- Concentrates on **diagramming** pronouns, adjectives, adverbs, prepositional phrases, compound subjects and verbs, and all four sentence patterns.
- Expands **noun functions** in sentences—compound, collective, plural, possessive, and subject/verb agreement.
- Develops **five kinds of pronouns** (demonstrative, relative, interrogative, reflexive, and indefinite), the three cases of personal pronouns (nominative, objective, and possessive), subject pronoun/verb agreement (number, person, and gender), and diagrams pronouns.
- Reviews **parts of speech.**
- Continues to develop **writing skills** which include **topic sentences, outlining,** and paragraph development.
- **Edits** written paragraphs to ensure that correct grammar is used.
- Recognizes **sentence fragments** and **run-on sentences.**
- Writes several short **biographical sketches.**
- Is encouraged in **character development** through examples given in each PACE.

English I (Grade 9) (PACEs 1097-1108)

The student:

- Learns about the history of the English language.
- Practices using **resources**—dictionary, thesaurus, concordance, encyclopedia, and the library.
- Reviews **outlining.**
- Writes a **biographical sketch** and answers **essay questions.**
- Continues to review and write with **verbs**—action/linking, transitive/intransitive, active/passive voice, tenses, progressive form, and emphatic mood.
- **Reads** and **analyzes** *The Swiss Family Robinson* by Johann Wyss and *Twice Freed* by Patricia St. John.
- Learns the **parts of a book;** the **elements of a short story** and a **novel**—chronological **order,** spatial order, and order of importance; the exposition, complication, and resolution of story **plots.**
- **Diagrams** simple, compound, and complex sentences.
- Is introduced to new **vocabulary words.**
- Identifies and uses the **literal** and **figurative meanings of words** and understands **word derivations.**
- Writes a **composition** unified by a single coherent **thesis** with a consistent tone and focus.
- Demonstrates an understanding of sentence construction by correctly using **clauses, phrases,** and the mechanics of **punctuation.**
- Is encouraged in **character development** through examples given in each PACE.

English II (Grade 10) (PACEs 1109-1120)

The student:

- Writes using four kinds of paragraphs and correct sentence structure.
- Reviews the characteristics of writing a **biography** and an **autobiography,** and learns to use note and source cards while using the reference books at the library.
- Studies the **elements of a book** and examines the **author's style** while reading, studying, and answering questions about *God's Tribesman* by James and Marti Hefley and *The Hiding Place* by Corrie ten Boom and Johan and Elizabeth Sherrill.
- Identifies and reviews basic **grammar.**
- Expands **vocabulary** through learning and writing new words.
- Classifies and diagrams the seven basic **sentence patterns** of simple and complex sentences.
- Discovers the purpose and type of newspaper articles and writes a **newspaper article.**
- Determines the purpose and appropriate forms of business and social letters and **letters** of application.
- Gains practical application of library skills.
- Learns to identify and appreciate **poetic forms.**
- Is encouraged in **character development** through examples given in each PACE.

English III (Grade 11) (PACEs 1121-1132)

The student:

- Identifies **sentence** fragments, run-ons, and complete sentences.
- Studies different **periods of American literature**.
- Recognizes and reviews **grammar**.
- Continues to build knowledge of capitalization and punctuation rules.
- Increases **writing skills**—descriptive, narrative, expository, and persuasive elements of a paragraph; plans and writes an essay.
- **Develops** setting, character, and plot for a short story .
- **Researches**, plans, and writes a term paper in a step-by-step process.
- Verifies and clarifies facts presented in other types of expository texts by using a variety of consumer, workplace, and public documents.
- **Reads** *In His Steps* by Charles M. Sheldon and answers questions.
- Studies excerpts from *The Oregon Trail*.
- **Analyzes** characteristics of satire, parody, allegory; pastoral themes used in poetry, prose, plays, novels, short stories, essays; and other basic genres.
- Is encouraged in **character development** through examples given in each PACE.

English IV (Grade 12) (PACEs 1133-1144)

The student:

- Is introduced to the different **periods of British literature**.
- Builds a **vocabulary** notebook.
- Improves **writing skills** in exposition, description, narration, and persuasion.
- Learns about parallelism.
- **Writes** character trait stories and answers essay questions accurately.
- Reviews and practices **grammar**—capitalization and punctuation.
- Uses the **dictionary** as a reference tool.
- Learns about denotation and connotation.
- **Paraphrases** and **writes summaries** while reading *The Rime of the Ancient Mariner* by Samuel Taylor Coleridge and *Silas Marner* by George Eliot (special edition).
- **Analyzes** Shakespeare's life and *Macbeth*.
- Continues the study of **speech**—topic selection, preparation, speaking methods, and speech delivery.
- Is encouraged in **character development** through examples given in each PACE.

Literature and Creative Writing/Basic Literature

Literature and Creative Writing 2 (Grade 2) (PACEs 1013-1024)

The student:

- Finishes stories and answers questions following one-page stories; chooses story endings.
- Recognizes and writes **descriptive sentences**.
- Sharpens reading and **comprehension** skills.
- Writes a personal narrative.
- Practices **handwriting** and **speed reading**.
- Relates to **character-building** objectives in each PACE.

Literature and Creative Writing 3 (Grade 3) (PACEs 1025-1036)

The student:

- Puts sentences, instructions, and stories in order; learns **sequencing** and placement.
- Uses action and descriptive words and learns about **limericks**.
- Expands **imagination**.
- Discovers heroes and enemies in a story.
- **Creates** stories from pictures.
- **Writes** story titles and reports.
- Learns about characters, plot, and setting; employs **comparison**; shows comprehension and order in a story.
- Continues to practice **speed-reading** and **handwriting** skills.
- Locates places on maps.
- Uses **Scripture** to learn how to respond to difficult situations that might arise.
- Considers character-building **examples** placed throughout each PACE in the course.

Required resources: *Summer Fun with Ace and Christi* by Grace Whitehart, and *Christians Courageous* by Anne E. Schraff

Literature and Creative Writing 4 (Grade 4) (PACEs 1037-1048)

The student:

- Uses imagination, **deductive reasoning**, and comparison and contrast.
- Learns to draw conclusions and find the main idea of a paragraph.
- Makes **predictions** about the end of a story and discerns between “alike” and “different”.
- Increases **dictionary skills**, learns about biographies, autobiographies, and libraries.
- Finds **valuable lessons** in character-building stories.
- **Writes** a letter to a missionary, an invitation, an anecdote, a sketch, and a story ending.

Required resources: *Ace and Christi Series—The Red Rag Riddle* by Grace Whitehart, *Charlotte’s Web* by E. B. White, *Children’s Missionary Library* by Vernon Howard and Alice Bostrom, *Choice Stories for Children* selected by Ernest Lloyd, *The Little Green Frog* by Beth Coombe Harris, and *Saved at Sea* by O. F. Walton

Literature and Creative Writing 5 (Grade 5) (PACEs 1049-1060)

The student:

- Adds to his knowledge of **short story elements**—setting, characters, plot, and order.
- Learns about the four types of **conflict** in stories.
- Discovers **personification, alliteration, anagrams, analogies**, antonyms, homonyms, homophones, similes, and metaphors.
- Considers time order and narrative, **cause and effect, point of view**, comparison and contrast, and the difference between fact and opinion.
- Distinguishes between topic sentences and supporting sentences and **persuasive and descriptive writing**.
- Gains knowledge of the Far North and Africa, biomes, Morse code, the metric and English systems of measurement, and art terms and concepts.
- Recognizes **editing** and **proofreading** marks.
- Writes a **book report** and review and defines and writes anagrams and anecdotes.

Required resources: *Choice Stories for Children* selected by Ernest Lloyd, *North to Amaroqvik* by Cheryl M. Ufkin, *Heidi* by Johanna Spyri, *Ace and Christi Series— Miracle at Camp Friendship* by Sarah Hopewell, *Dog of Flanders* by Marie Louise De La Ramée, and *Star of Light* by Patricia M. St. John

Literature and Creative Writing 6 (Grade 6) (PACEs 1061-1072)

The student:

- Locates words in a dictionary, identifies **word families**, and defines new vocabulary words.
- Reads and answers thought questions.
- Uses **visual discrimination**.
- Writes expository and descriptive paragraphs, **essays**, simple and detailed explanations, directions, **personal diary** entries; **cause** and **effect**; **fact** and **opinion**; and exposition, description, persuasion, and narration.
- Identifies figures of speech, **sensory detail**, and climax and resolution of story.
- Solves word and **logic puzzles**.
- Converts information into bar graphs.

Required resources: *The Fugitive King* by Elizabeth Handford, *Christians with Courage* by Ruth Johnson Jay, *Alexi's Secret Mission* by Anita Deyneka, *Ace and Christi Series—Grandpa's Christmas Gift* by Sarah Hopewell, *Little Pilgrim's Progress* by Helen L. Taylor, and *Treasures of the Snow* by Patricia M. St. John

Basic Literature 7 (Grade 7)

The student reads:

- *George Mueller* by Faith Coxe Bailey. George Mueller provided for thousands of **orphaned children**. He never asked anyone except God for their needs, but all needs were miraculously met.
- *D.L. Moody: Greatest Evangelist of the 19th Century* by Faith Coxe Bailey, the life story of the great American Evangelist **used by God** to found Moody Bible Institute.
- *Through Gates of Splendor* by Elisabeth Elliott, the story of **five missionary men** who were killed by the Auca Indians they wanted to win to Christ, and the subsequent developments in the lives of the families involved.
- *By Searching* by Isobel Kuhn. Isobel Miller abandoned God for worldly pursuits. When her world shattered, she sought and received peace from God and served with her husband as a **missionary to China**.
- *Swiss Family Robinson* by Johann Wyss, the story of the Robinson family marooned on a desert island. As they explored their surroundings, they learned not only to survive, but also to enjoy their new home.

Basic Literature 8 (Grade 8)

The student reads:

- *God's Adventurer* by Phyllis Thompson, a story about the life and adventures of missionary Hudson Taylor.
- *Little One, Maid of Israel* by Bill Harvey. This is an exciting story about the young maid whose life affected the Syrian captain Naaman.
- *When Science Fails* by John Hudson Tiner. Documented cases of major scientific discoveries in the modern era present a powerful testimony to the validity of the Scriptures.
- *Abraham Lincoln* by David R. Collins, the story of our 16th president, his rise to the White House, and his dependence on Jesus.
- *Ann of Ava* by Ethel Daniels Hubbard, the life story of Ann Judson, wife of Adoniram Judson, missionary to Burma.
- *In His Steps* by Charles M. Sheldon. This selection is one of the great books for Christians today and will be a tremendous help to each student.

Basic Literature 9 (Grade 9) 1/2 Credit

The student reads and writes an appropriate essay for:

- *Up From Slavery* by Booker T. Washington, an autobiography of the man who was born a slave and yet who became a very influential American.
- *Michael Faraday* by Charles Ludwig, the life story of an English boy whose **scientific research** led to the modern day use of electronics in almost all areas of life.
- *The Pilgrim's Progress* by John Bunyan, an **allegory** representing the life of a Christian.

- *The Hiding Place* by Corrie ten Boom with John and Elizabeth Sherrill. The story depicts life during **World War II** and the persecution involved, along with a sense of God's perfect will to be accomplished.
- *Did Man Just Happen?* By W.A. Criswell. The **case for creation** is presented in a way that ends the question.
- *Robinson Crusoe* by Daniel Defoe, a classic story of one man's **shipwreck** on a lonely island and his survival.

Literature I (upper-level high school student) (PACEs 1122-1132) 1/2 Credit

The student reads and studies:

- The **heartwarming** biography of Adoniram Judson, by William McElrath, *To Be the First*.
- *Man Sent From God* by Robert Sumner. This book celebrates the life of one of the **spiritual giants** of the twentieth century, John R. Rice.
- *The Flood* by Alfred Rehwinkel is a conservative work defending the **universal Flood**.
- *Let Us Pray* by Watchman Nee. This book is a collection of **thought-provoking** messages on prayer by the author.
- *The Hiding Place* by Corrie ten Boom with John and Elizabeth Sherrill. This book is a glimpse of the spiritual life and **anguish** of Corrie ten Boom during her WWII imprisonment.
- *The Scottish Chiefs* by Jane Porter, the suspenseful tale of **hero vs. villain** in Scotland's bid for freedom.

Literature II (upper-level high school student) (PACEs 1134-1144) 1/2 Credit

The student reads and discusses:

- The nature of law and the powers and limits of government as expounded by F. Bastiat, a pre-Revolution Frenchman, in *The Law*.
- The **interesting elements** in the world power, *None Dare Call It Conspiracy*, by Gary Allen.
- *The Late Great Planet Earth* by Hal Lindsey, an **exciting discussion** of the end times as foretold in the Scriptures.
- *Ben Hur* by Lew Wallace, the timeless classic of betrayal, revenge, intrigue, and courage.
- *Billy Sunday*, who wanted "to be a giant for God," by his chief biographer William Ellis.

Word Building

Word Building 1 (Grade 1) (PACES 1001-1012)

The student:

- Recognizes long and short **vowels** and letter sounds.
- Studies **auditory** and **visual discrimination**—consonant letters and the sounds of C and G.
- **Reads** words and sentences.
- Learns important **concepts**—matching like and different shapes, color usage, rhyming pictures, directional words, and story sequence.
- Practices letter formation—**writing** words and sentences and alphabet sequence.
- Learns to **follow instructions**—using color and spatial terms.
- Is encouraged in **character development** through examples given in each PACE.

Word Building 2 (Grade 2) (PACES 1013-1024)

The student:

- Practices **printing** letters, words, and sentences.
- **Reads** and gains a greater understanding of vowels and consonants.
- Learns **phonic rules**—double and triple vowel sounds, blends, endings, digraphs, and diphthongs.
- Is encouraged in **character development** through examples given in each PACE.
- Expands **vocabulary** with new spelling words in each PACE.

Word Builder, a vocabulary software for Levels 2–8, is also available for additional reinforcement and drill.

Word Building 3 (Grade 3) (PACES 1025-1036)

The student:

- **Reviews** long and short vowel sounds, blends, digraphs, and diphthongs.
- Expands **vocabulary** with prefixes and word endings.
- Learns new **phonetic rules**—schwa **a** and silent letters.
- Increases **visual discrimination**.
- Develops **word concepts** that are presented in English—antonyms, synonyms, homonyms, and confusing words (there/their).
- Is encouraged in **character development** through examples given in each PACE.

Word Building 4 (Grade 4) (PACES 1037-1048)

The student:

- Develops **vocabulary** by reviewing consonants and vowels, beginning and ending sounds, doubled consonants, suffixes, and prefixes.
- Is introduced to **syllables**, **contractions**, and more compound words.
- Learns to form plurals with **es** and changes **y** to **i** and **f** to **v**.
- Is encouraged in **character development** through examples given in each PACE.

Word Building 5 (Grade 5) (PACES 1049-1060)

The student:

- Identifies **parts of speech**—nouns, verbs, and present and past tenses.
- Recognizes **syllable** divisions and accents.
- Evaluates **root words**, prefixes, and suffixes.
- Forms **plurals** by changing the endings.
- Is encouraged in **character development** through examples given in each PACE.

Word Building 6 (Grade 6) (PACES 1061-1072)

The student:

- Reviews **phonics rules**—vowels, consonants, blends, diphthongs, and digraphs.
- Builds on the **parts of speech** foundation—present, past, and progressive tenses; and forming plurals.
- **Classifies words** that are homonyms, words with more than one definition and easily confused, and negative words.

- Identifies division rules and accenting **syllables**.
- Begins to study **word histories** through the use of a dictionary.
- Is encouraged in **character development** through examples given in each PACE.

Word Building 7 (Grade 7) (PACEs 1073-1084)

The student:

- Reviews **word studies**—synonyms, homonyms, antonyms, heteronyms, commonly misspelled words, Greek word parts, and words of Spanish and French origin.
- Expands **grammar** usage—regular and irregular verb forms, forming adjectives from nouns and adverbs, interjections, complete subject, and complete predicate.
- Integrates thinking and writing with correct **punctuation**.
- Reviews, memorizes, and learns **abbreviations**—days of the week, months, states, and capitals.
- Continues to study **phonics rules**—different sounds of s and c, ending sounds, prefixes and suffixes, diphthongs, and accent and syllable division.
- Writes about the **character traits** taught in each PACE.

Word Building 8 (Grade 8) (PACEs 1085-1096)

The student:

- Expands his knowledge and use of **phonics rules**—vowel sounds and spelling; and special sound consonants s, c, j, g, and k.
- Learns the **semaphore alphabet code**.
- Increases his understanding of **grammar**—verb forms, tenses, nouns, and plurals.
- Writes about the **character traits** taught through concept examples in each PACE.

Etymology—Word Building 9 (Grade 9) (PACEs 1097-1108)

The student:

- Identifies **root words** and writes their meanings.
- Reviews the **word study** of homonyms, synonyms, and antonyms.
- Expands on the **functions** of suffixes.
- Reviews **phonics rules**—special sounds, silent letters, digraphs, and diphthongs.
- Develops **grammar comprehension**—parts of speech and their functions.
- Builds on the **character trait** examples.

Social Studies

Social Studies 1 (Grade 1) (PACEs 1001-1012)

The student:

- Learns about Ace and Christi.
- Builds **reading skills**.
- Discerns **objects** with wheels, on the water, and in the sky.
- Begins globe and **map study** and reads about Pilgrims and the United States.
- Develops **respect for the law**, obedience to rules and laws, and good study habits.
- Learns to **care for things**, that hard work is a virtue, how to share with others, and ownership.
- Learns about **different people** and their work and homes and clothing of **different climates**.
- Reviews stories about Adam, Eve, Cain, Abel, and Noah; the church and school; God and Jesus; how to give to God; missionaries; and how to **pray for leaders**.
- Is encouraged in **character development** through examples given in each PACE.

Social Studies 2 (Grade 2) (PACEs 1013-1024)

The student:

- Meets new A.C.E. characters; Ace's friends, his church and school; surveys the mission field of Spain, and observes an A.C.E. rally.
- Learns about **travel**—maps, signs, the compass, camping, and directions.
- Expands his understanding of our **country**—freedom, the Capital, our President, citizenship, flags and pledges, famous buildings, Washington, D.C., George Washington, and rules and laws.
- Learns about **communities, farms** and ranches, fruits and orchards.
- Builds **reading comprehension** and learns **new vocabulary** in every PACE.
- Uses **visual discrimination** to draw similar shapes.
- Is encouraged in **character development** through examples given in each PACE.

Social Studies 3 (Grade 3) (PACEs 1025-1036)

The student:

- Is introduced to different forms of **communication**—telephone, telegram, languages, sign language, Braille, microphones, tape recording, the printing press, and prayer.
- Learns about **conservation** of water and land use and the natural resources water and gas.
- Discovers **geography**—continents on the map and globe, Spain, and Israel.
- Distinguishes between different types of **communities, businesses, and agriculture**—farms and products.
- Expands knowledge of **American history**—Christopher Columbus, colonization, slavery, George Washington Carver, and our government.
- Studies Joseph, Moses, Cain, and Abel, and God's laws (Ten Commandments); to accept whatever happens as God's best; and to do good and do right.
- Continues to learn new **vocabulary** words in each PACE.
- Is encouraged in **character development** through examples given in each PACE.

Social Studies 4 (Grade 4) (PACEs 1037-1048)

The student:

- Expands **geography** knowledge—how the Earth moves, kinds of land and water on the Earth; India, England, Africa, China, Burma, and South America.
- Learns more about **maps**, globes, directions, distances, **latitude** and **longitude**, and **modes of transportation**.
- Continues to learn about **early America**—colonial life, the Indians of New England, the Auca Indians, John Bunyan, Señor Coronado, and the Pilgrims.
- Discovers **Christian leaders** and missionaries in American history:

John Wycliffe
George Mueller
Adoniram Judson

David Brainerd
David Livingstone
Jim Elliot

William Carey
Hudson Taylor

- Studies heroes from the **Bible**—Abraham, Isaac, Isaiah, Joseph, John the Baptist, the prodigal son, and Daniel.
- Appreciates **religious freedoms** in America—our churches, Christian education, and our government.
- Builds reading comprehension by **reading** and **writing** answers to questions.
- Continues to learn new **vocabulary** words in each PACE.
- Is encouraged in **character development** through examples given in each PACE.

Social Studies 5 (Grade 5) (PACEs 1049-1060)

The student:

- Learns about systems of government, great leaders, wars, and current events affecting our world.
- Learns **Biblical truths**—work is of God, possessions and true prosperity are from God, stewardship, entrusting one’s life to Jesus, faithfulness and loyalty, and obedience.
- Discovers **Christian leaders** and missionaries in American history—John Eliot and Dr. Marcus Whitman.
- Studies **early American history to present history**:

Early explorers	Industrial Revolution
American Independence	Great Depression
Missionaries	Early settlements
American Immigration	American presidents
World Wars I and II	Homestead and Railroad Acts
England’s influence	Monroe Doctrine
George Washington	Korean, Vietnam, and Persian Gulf Wars
Civil War and Reconstruction	
- Uses a **time line**.
- Reviews heroes from the **Bible**—Daniel and Nebuchadnezzar, Abraham and Sarah, the virtuous woman, and Solomon and his Proverbs.
- Learns states and their capitals.
- Is encouraged in **character development** through examples given in each PACE.

Social Studies 6 (Grade 6) (PACEs 1061-1072)

The student:

- Gains an insight into the New World **after the Flood**—the Tower of Babel, the times of the Patriarchs, civilization from c. 2000 to 500 B.C., the Assyrian and New Babylonian Empires, the Silent Years (the rebuilding of Jerusalem), great Christian leaders from A.D. 100 to A.D. 430, and from A.D. 1300 to A.D. 1500, and the Great Awakening in America.
- Identifies heroes from the **Bible**—Noah, Abraham, Isaac, Jacob, Joseph, Moses and the Exodus, Samuel; and the birth, life and death of Christ.
- Develops **character traits** through examples in each PACE.
- Studies **Christian leaders** and **missionaries** in American history.

Ignatius	Polycarp	Justin Martyr
Irenaeus	John Wycliffe	John Huss
Martin Luther	John Calvin	John Knox
Jonathan Edwards	John and Charles Wesley	George Whitefield
William Tennant	Gilbert Tennant	Circuit preachers

Social Studies 7 (Grade 7) (PACEs 1073-1084)

The student:

- Is introduced to different **professions** and **vocations**.

Agriculture	Construction	Homemaking
Air Transportation	Education	Mechanics
Attorney	Food Preparation	Office/Administrative Support
Banking	Government	Protective Services
Christian Service	Law	Science
Computing	Health Care	Social Services
- Is encouraged to think about a career based on God’s will for his life, considers if he is glorifying God with his talents, and ponders how to **prepare for the future**.

- Is encouraged in **character development** through examples given in each PACE.

The second half of this grade level allows for the appropriate state history course. Contact our Customer Service Department for availability of other state history courses.

Social Studies 8 (Grade 8) (PACEs 1085-1096)

The student:

- Utilizes time lines and maps.
- Explores the beginning and colonization of **America**—the birth of freedom, developing a nation, War between the States, Reconstruction and expansion, World War I to the Great Depression, building American societies and World War II, the Fair Deal to the Great Society to Reformation.
- Learns about all the **Presidents** from Grover Cleveland to George W. Bush.
- Is encouraged in **character development** through examples given in each PACE.

World Geography (Grade 9) (PACEs 1097-1108)

The student:

- Studies the beginning (Postdiluvian) earth, earth's resources, Africa, Canada, the United States, Latin America, the Arctic, Western Europe, Eastern Europe, Northern Asia, Southern Asia, the South Pacific Islands, and the Middle East.
- Learns about some of the **challenges** of each region.
- Reads, draws, and **interprets maps**.
- Completes a continent-by-continent **study of geography**.
- Compares and contrasts **political regions**.
- Determines **Christian influence** of each area.

World History (Grade 10) (Self-Pacs 97-108)

The student:

- Learns about **ancient civilizations**, the Middle Ages, the Renaissance, Colonialism, the Age of Revolution, and the history of Europe between 1850-1990s.
- Learns about the **fall of Communism**—the spiritual awakenings and the missionary outreach.

Optional resource books: *The Law* by Frederic Bastiat, *The Federalist Papers* by Alexander Hamilton, James Madison, and John Jay, and *Student Atlas of the World*

American History (Grade 11) (Self-Pacs 109-120)

The student:

- Views American history from the colonial period to the present.
- Gains an understanding of America's **religious, philosophical, and political background**.
- Studies the **growth of industrialism**—its background, products, benefits, and the expansion of liberalism (1890-1914).
- Learns about **immigration**—the urban problems, rural unrest, and social reform (1865-1900).

Optional resource books: *The Federalist Papers* by Alexander Hamilton, James Madison, and John Jay; and *Student Atlas of the World*

U.S. Civics (Grade 12) (PACEs 1133-1138)

The student:

- Studies the **historical foundations** of American Civics.
- Reviews the Biblical, Greek, Roman, and Anglo-Saxon governments; types of church governments; origins, structures, functions, and **limitations of state and local governments**.
- Studies the reasons and results of the **Reformation** and the influence of the philosophies of the **Enlightenment** on today's culture.
- Summarizes the **historical, social, and economic conditions** that led to the Declaration of Independence; the Articles of Confederation; Constitution ratification; and the colonial and modern meaning of "separation of church and state".

- Learns the **structures** and **functions of the national government**.

Optional resource book: *The Federalist Papers* by Alexander Hamilton, James Madison, and John Jay

Economics (Grade 12) (PACEs 1139-1144)

The student:

- Learns about price theory, laws of supply and demand, production, **cycles of free enterprise**, international and free trade, banking and investments, stewardship, government, and the economy.
- Identifies definitions, terms, and theories of **economics**.
- Learns about the organization and functions of the Federal Reserve and the Social Security Systems.
- Interprets information from and uses profit and loss **tables** and **graphs**.
- Learns how to establish and follow a **budget**.
- Discovers the disadvantages of debt, the value of saving, and being involved in a long-range financial plan.

Science 1 (Grade 1) (PACEs 1001-1012)

The student:

- Pronounces and learns **new vocabulary words** as they are defined and used in the text.
- Discovers God's wisdom as he learns about God creating Earth and Earth's movements, the four **seasons**.
- Learns about the design and care of the human eye and ear; high, low, soft, and loud sounds.
- Learns about the importance of **personal health**—clean teeth and hands.
- Gains a **respect for God** as he learns about God's wisdom, goodness, kindness, and that all things belong to God.
- **Reads** stories and answers questions about God's creation.
- Continues to build **eye-hand coordination** by drawing shapes, irregular shapes, and directional lines.

Science 2 (Grade 2) (PACEs 1013-1024)

The student:

- **Expands his knowledge** of the days of Creation, the first man and woman.
- Learns about animals, changes in seasons and **weather**, heavenly bodies, plains, flat lands, valleys, hills, and mountains.
- Enlarges his **vocabulary** with the introduction of new words.
- Builds **reading comprehension**.
- Continues to build **eye-hand coordination** by drawing shapes, irregular shapes, and directional lines.
- Learns how God made every person **unique** through the introduction of fingerprints, etc.
- Learns about the **five senses**.
- Is encouraged in **character development** through examples given in each PACE.

Animal Science (Grade 2) (PACEs 1013-1024)

Second grade students may enjoy Animal Science. These PACEs include characteristics, habitats, and natures of specific animals. Animal activities are presented in interesting story form and, where appropriate, Scripture references to these animals are highlighted. Students learn about sheep, dogs, horses, cats, cattle, unusual birds, and many more animals.

Science 3 (Grade 3) (PACEs 1025-1036)

The student:

- Observes the faithfulness of God while learning about the **solar system**.
- Learns about the concept and measurement of **time**.
- Learns about animal and plant **life cycles**.
- Recalls and continues the study of God's **Creation**.
- Studies **Bible topics** such as Jesus' return; sin, death, and the curse; man's freedom to choose to love and obey God.
- Read stories using **new vocabulary** and **visual discrimination**.
- Looks at geological changes after the Flood—jungles and hot lands, tundra and cold lands, volcanoes and earthquakes.
- Is encouraged in **character development** through examples given in each PACE.

Science 4 (Grade 4) (PACEs 1037-1048)

The student:

- Learns about the **water cycle**—condensation, evaporation, precipitation, cloud shapes, and the characteristics of air and water.
- Studies living and nonliving **matter**, gravity, minerals and their uses, **plants'** needs, and plant conservatories.
- Identifies **simple machines**.
- Learns about **respiration** and blood **circulation**, the diaphragm and heart, digestion and saliva.
- Focuses on **good hygiene** and teeth; bacteria, viruses, and fungi; and the design and function of the skin.

- Is introduced to early **men of science**.
- Studies rockets and airplane **flight**.
- Understands the need for exercise, sleep, and **proper nutrition** for the human body.
- Is encouraged in **character development** through examples given in each PACE.
- Continues to add new **vocabulary** words.

Science 5 (Grade 5) (PACEs 1049-1060)

The student:

- Explores **living** and **nonliving matter** and active, dormant, and extinct volcanoes.
- Learns about **energy**—work, force, kinetic, potential, and radiant energy.
- Studies **oceanography**, **astronomy**, comets, and the aurora borealis.
- Studies the outer, inner, and middle ear; hearing difficulties; and vibration, pitch, and frequency of sounds.
- Studies **molecular** and **atomic theories**; friction, heat, and gravity; and expansion and contraction.
- Views dinosaurs and fossils from a **Biblical perspective**.
- Learns the relationship between the Bible and botany, meteorology, and zoology.
- Discovers the Bible to be the **final authority** in scientific matters.
- Learns new **vocabulary words** in each PACE.
- Is encouraged in **character development** through examples given in each PACE.

Science 6 (Grade 6) (PACEs 1061-1072)

The student:

- **Expands** his vocabulary base with the addition of new vocabulary words.
- Explores the theories, properties, and laws of magnetism, and the uses of magnets; acids, bases, **elements**, solvents, solutes, and solutions in chemistry; higher and lower plants, and the process of **photosynthesis**.
- Looks at the history, nature, and uses of **electricity**; chemical, mechanical, and nuclear sources of electricity and measuring electricity.
- Learns about the central nervous system, the senses, the structure and function of the **skeletal** and **muscular systems**, infectious and noninfectious diseases, treatment of and defense against diseases, and digestion and nutrition.
- Builds knowledge of previously introduced **character traits**.

Science 7 (Grade 7) (PACEs 1073-1084)

The student:

- Continues exploring the **skeletal** and **muscular systems**, different types of viruses, bacteria, algae, and fungi.
- Studies characteristics of **birds** and **mammals** and **botany**—the needs, conducting, and reproductive systems of plants.
- Learns about **simple** and **complex invertebrate animals**, the structure and characteristics of vertebrates, embryos, inherited traits, **gene functions**, and alterations.
- Studies **ecology**—balance and cycles of nature, biomes, effects of water and air pollution, and how pollution can be controlled.
- Increases **vocabulary** with the introduction of new words in each PACE.
- Is encouraged in **character development** through examples given in each PACE and expands his ability to use each of these Godly traits in **real-life situations**.

Science 8 (Grade 8) (PACEs 1085-1096)

The student:

- **Explores** the wonders, resources, and cycles of God's Creation.
- Searches **proofs** of Creation and the Flood.
- Studies **astronomy**—the stars, familiar and unusual, their purpose and message, and planets of the solar system.
- Learns about the structure and measurable qualities of Earth's atmosphere, **climates**, **weather factors** and **forecasting**, and the hydrosphere.
- Looks at the **foundations of the world**—Earth's layers, topography and mapping of the world, soil formation and **conservation**, and weathering and erosion.

- Discovers Earth’s buried treasures—understanding, classifying, using, and appreciating our **mineral resources**.
- Is encouraged in **character development** through examples given in each PACE.

Biology (Grade 9) (PACEs 1097-1108)

The student:

- Views the wonders of the Creator as he studies the **structure** and **function** of man’s skin, skeleton, and muscles; the **central nervous system**; blood and circulation; **nutrition** and **growth**.
- Observes **scientific proof** for Creation of fish, amphibians, reptiles, and invertebrates.
- Examines mammals—their characteristics, migration, and hibernation; groups and body structure of birds; characteristics and classification of plants.
- Learns the system of **scientific classification**.
- Uses character stories to apply **Scriptural principles** to everyday situations.

Twenty-four optional videos also provide interactive, multimedia instruction and “virtual hands-on” lab experiments.

Optional Biology Lab DVDs provide the benefits of a scientific laboratory and allow students to observe “hands-on” lab experiments.

Physical Science (Grade 10) (PACEs 1109-1120)

Prerequisite: Algebra I

The student:

- Learns the **scientific method** and notation, powers of ten notation, significant figures; homogeneous and heterogeneous substances; air and atmospheric pressure, pressure and density of gases; formation of chemicals, elemental periods and families; metals and metalloids.
- Studies **laws of motion** and **gravity**, light, electricity, and **modern physics**.
- Applies **Scriptural principles** to everyday situations.

Twenty-four optional videos also provide interactive, multimedia instruction and “virtual hands-on” lab experiments.

Optional Physical Science Lab DVDs provide the benefits of a scientific laboratory and allow students to observe “hands-on” lab experiments.

Chemistry (Grade 11) (PACEs 1121-1132)

Prerequisites: Biology, Physical Science, and Algebra I

The student:

- Examines the **history** and **development of chemistry**, careers and fields of study, **nuclear chemistry** and **biochemistry**, chemical reactions and balancing equations, acids and bases, the four phases of matter, molecular bonding, and the Periodic Table of Elements.
- Learns about **thermodynamics** and quantitative and qualitative analysis.
- Uses “**Teen Life Principles**” to apply wisdom to everyday situations.

Twenty-four optional videos also provide interactive, multimedia instruction and “virtual hands-on” lab experiments.

Physics (Grade 12) (PACEs 1133-1144)

Prerequisites: Algebra I and Physical Science

The student:

- Studies radiation and **nuclear energy**, heat energy and temperature, conduction, and convection.
- Studies electrochemistry, wave motion and sounds, the **Doppler effect**, and optics and optical instruments.
- Investigates states of matter—force, motion, gravity, momentum, and energy.
- **Reinforces** learned concepts by review.
- Learns to apply **Scriptural principles** to everyday situations.

Twenty-four optional videos also provide interactive, multimedia instruction and “virtual hands-on” lab experiments.

Bible Reading

Bible Reading 1 (Grade 1) (PACEs 1001-1012)

The student:

- Follows vividly-colored drawings of Bible characters while listening to Bible stories.
- Develops small motor muscles, eye-hand coordination, and visual discrimination.
- Learns basic Bible accounts.

Bible Reading 2 (Grade 2) (PACEs 1013-1024)

The student:

- **Reads** and **answers** questions about God's Word.
- Focuses on the book of **John**.
- **Memorizes** the books of the New Testament.
- Is encouraged in **character development** through examples given in each PACE.

Bible Reading 3 (Grade 3) (PACEs 1025-1036)

The student:

- **Reads** and **answers** questions about God's Word.
- Focuses on the book of **Matthew**.
- **Memorizes** the books of the Old Testament.
- Is encouraged in **character development** through examples given in each PACE.

Bible Reading 4 (Grade 4) (PACEs 1037-1048)

The student:

- **Reads** and **answers** questions about God's Word.
- Focuses on reading **Mark** and **Luke**.
- Learns the division of Old Testament books into sections: Law, History, Poetry, Major Prophets, and Minor Prophets.
- Is encouraged in **character development** through examples given in each PACE.
- Practices reading from God's Word.

Bible Reading 5 (Grade 5) (PACEs 1049-1060)*

The student:

- Focuses on reading **Acts**, **Genesis**, **Exodus**, and begins **Psalms**.
- Reviews all the books of the Bible.
- Practices **personalizing** and **meditating on Scripture**.
- Learns interesting **Bible facts**.

*Call before ordering.

Christian Growth (PACEs 1133-1138) 1/2 Credit

The student reads:

- *The School of Obedience* by Andrew Murray, an encouragement to Believers to follow the Lord's example of **obedience** in life and ministry.
- *The Hour That Changes the World* by Dick Eastman, a plan with practical suggestions for the Christian who wants to improve prayer life.
- *Nervous Christians* by L.G. Little and T. H. Epp, a study of nervous disorders, psychosomatic suffering, and **psychotherapy** as written by a Christian doctor.
- *The Spirit-Controlled Temperament* by Tim LaHaye, a discussion of the four **basic temperaments** and how God uses them in a Christian life dedicated to Him.
- *When a Christian Sins* by John R. Rice, an examination of what happens when a Christian sins—how his life is affected, and how he can avoid sin.
- *This Way to Happiness* by Clyde M. Narramore, a survey of the basic needs of all humanity and how they are all met fully in Christ.

Introduction to Missions (PACEs 1-6) 1/2 Credit

The student:

- Is introduced to **worldwide missions**.
- Gains an appreciation of what has helped shape the path of mission work.
- Reads *Peril by Choice* by James Hefley, the story of John and Elaine Beekman, missionaries to Mexico and Guatemala.
- Reads *Peace Child* by Don Richardson, the story of Don and Carol Richardson, missionaries to what is now Irian Jaya.
- Reads *Beyond the Next Mountain* by Mawii Pudaite, the story of Rochunga Pudaite, native of India, who translated the Bible into the Hmar language.
- Reads *C.T. Studd* by Norman Grubb, the story of C.T. Studd, missionary to China, India, and Africa.
- Reads *The Triumph of John and Betty Stam* by Geraldine Taylor, the story of John and Betty Stam, missionaries to China.
- Reads *Give Up Your Small Ambitions* by Michael Griffiths, a book that assumes that we have given up our "small ambitions" and are pressing toward the mark of the great ambition—the "high calling of God in Christ Jesus."
- Reads *Flagellant on Horseback* by Richard Ellsworth Day, the story of David Brainerd, missionary to United States Indians in early colonial days.

Life of Christ (PACEs 1133-1144)

The student:

- Examines the **historic and cultural background** of the New Testament.
- Studies the **nature of the Gospels**.
- Considers the **Galilean ministry** of Christ.
- Follows Christ's **Berean and Judean ministries**.
- Visualizes the triumphal entry of Christ and His final **public teaching**.
- Witnesses the **final hours of Christ** with His disciples.
- Studies the **resurrection** and post-resurrection appearances of Christ.
- Gains insights that will enhance his **personal walk** with the Saviour.

New Testament Church History (Self-Pacs 121-132)

This fascinating study tracing the roots of church history will develop the student's appreciation of the church's role from its earliest days. It is intended for the upper-level high school student. The subject matter explains God's plan for the formation and spread of the church and the extension of the Gospel.

Optional resource: *Halley's Bible Handbook*

New Testament Survey (Self-Pacs 97-108)

This course is designed to introduce the high school student to the penman, the place, the period, the problem, the peculiarities, the purpose, and the plan of each book. The Inter-Testament Interval, and Matthew through Revelation are studied. This course contains a special project the student must accomplish with his pastor before completing the Test.

Optional resource: *Halley's Bible Handbook*

Old Testament Survey (Self-Pacs 109-120)

This is a comprehensive course designed to provide the high school student with a book-by-book understanding of the Old Testament. The chronology, history, setting, and content of the Old Testament are examined in such a way that the student's comprehension is increased. This study covers the introduction, preparation for Bible study, and authority of the books of the Bible. The covenants, time periods, laws, poetical books, and minor prophets are just a sample of topics that are discussed.

Business

Accounting (Self-Pacs 121-132)

The student:

- Studies assets, **accounting techniques**, liabilities and capital, and journalizing.
- Demonstrates understanding of a **ledger analysis, account management**, a balance sheet, and income statement completion.
- Investigates accounting for sales and purchases as well as inventory control.
- Learns about **tax preparation**, partnership, and corporate accounting.

Business Math (Self-Pacs 109-120)

The student:

- Reviews **general math** concepts.
- Studies **percentages**.
- Learns about the **hourly wage system, salary, and commission**.
- Studies local, state, and federal **taxes**.
- Examines the purchasing and pricing of goods for **profit**, the wholesaler, and the manufacturer.
- Practices checkbook reconciliation, budget preparation, calculation of discounts, and insurance acquisition.

General Business (Self-Pacs 97-108)

This study introduces the upper-level high school student to the world of business. It includes markets, consumer studies, advertising, corporations and industries, careers in business, production, labor, federal control, international business, banking, and finance.

Fine Arts

Beginning Art (junior high school student) (PACes 1073-1084)

The student:

- Reproduces a number of illustrations in the course using pencil, charcoal, pen and ink, **watercolor**, tempera, and samples the art of lettering.
- **Paints** a color wheel, identifies warm and cool colors and mixtures, uses opposites on the color wheel successfully, and mixes colors to obtain the color needed.
- Studies line variation, design, and shape, and uses **shading** for depth and perspective.
- Draws various **textures** effectively.
- Learns to create well-balanced indoor and **outdoor scenes**, landscapes, and interiors.
- Uses stick figures to show action, indicates mood with facial expressions, and draws simple **cartoons**.
- Understands how to make a flannel board, creates **flannelgraph** backgrounds and story materials, and makes **posters**.

Advanced Art (high school student) (PACes 1097-1108)

The student:

- Studies an introduction to the tools of art: the pencil, pen and ink, and paints.
- Learns the principles of **design**: symbols, rhythm, shapes, and awareness.
- Investigates the hue, value, intensity, and **proportion of color**, and paints in color.
- Designs clothing, draperies, still figures, and figures in motion.
- Learns about observation, **point of view, perspectives**, and light and shade.
- Examines **chalk talks** (materials, setup, tools for success) and generates a program.
- Discovers lettering, layouts, spacing, and other techniques designed to help the student integrate the learned material.

Music (high school student) (PACEs 1-6) 1/2 Credit

The student:

- Identifies various types of **instruments**—string, woodwind, brass, percussion, and keyboard instruments.
- Is taught how to **read music**.
- Learns how to **select** and purchase an instrument.
- Appreciates the background of **great hymns** and hymn writers.
- Gains knowledge of **music notation** including staff, clefs, intervals, scales, triads, and tetra chords.
- Learns the **properties of tone** (sounds, pitch, duration, intensity, and quality).
- Develops **song-leading** skills.
- Recognizes recorded music from select **composers**.

Required resource: *Music Appreciation Tapes* (audio)

Speech (PACEs 1-6) 1/2 Credit

The student:

- Understands the importance of **proper breathing** techniques, adding variety through inflection, speaking with emotion and **enthusiasm**, improving eye contact, and learning to articulate sounds properly.
- Becomes mentally and physically prepared for **public speaking**.
- Observes how pause, **stress**, and **pitch** affect speaking.
- Identifies the symptoms of stage fright.
- Learns the importance of **proper word choice**.
- Uses multiple personalities in communication.
- Applies the concepts of effective speaking through the **presentation of speeches**.

Optional resource: *Speech Illustrated* (video)

Computer

Microsoft Office Technology Training

The student:

- Operates the Microsoft® Windows® or Macintosh® Operating System environments.
- Learns to use a Microsoft® Office Suite.
- Gains valuable knowledge and computer skills necessary for college and the workplace.

Programs Offered:

Windows 98, 2000, XP
Macintosh OS 9.0 and OS X
Microsoft Office 2000

Microsoft Office 2002/XP
Microsoft Office 2003
Microsoft Office 2000 for Mac

Microsoft Office includes: Word, Excel, Outlook®, Access, PowerPoint®, FrontPage®, Project, Publisher, Visio®, and InfoPath™.

Microsoft, PowerPoint, Outlook, FrontPage, Visio, and Windows are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.

Government

Collectivism (PACEs 1133-1138) 1/2 Credit Government Elective

The student:

- Studies the origins of collectivism in the revolt of Satan, the fall of man, the Tower of Babel, and classical and neo-classical **utopian theorists**.
- Examines the development of **socialist movements** from the seventeenth to the eighteenth centuries and studies an account of the fascist movements in Italy, Spain, Portugal, France, and Argentina.
- Investigates the order of **the Illuminati**, the French Revolution, Communism in ancient Greece and Rome, the **Wesley Revivals** in England, and the Awakenings in America.
- Analyzes the theory of **Marxism**—looks into the lives of Karl Marx and Friedrich Engels.
- Considers the events leading up to the 1905 and 1917 Russian Communist Revolutions, the 1912 **Chinese Nationalist Revolution**, and the 1948 Communist takeover of China.

The Constitution (PACEs 1133-1136) 1/2 Credit Government Elective

The student:

- Studies the origins and foundations of the Constitution including its drafting and ratification.
- Memorizes, writes, and recites the *Preamble to the Constitution*.
- Discusses Article I—the organization, administration, and official duties of the **legislative** branch of government.
- Recognizes limitations on the President's powers and duties, the duties of the **executive** branch of government, and a discussion of Article II.
- Researches methods of amending the Constitution and the organization, administration, and duties of the **judicial** branch of the government.
- Investigates certification of the Constitution as the **supreme law** of the land and ratification rules and procedures.

This course must be taken in conjunction with Collectivism in order to receive 1/2 credit.

Health

Health Elective (PACEs 1-6) 1/2 Credit

The student:

- Learns the importance of **proper nutrition**, both spiritual and physical; types of nutrients; a **balanced approach** to exercise, diet, and weight loss.
- Examines a **Biblical view** of tobacco, alcohol, harmful drugs, sexually transmitted diseases, AIDS, and mental and emotional health.
- Gains **valuable information on safety** in six basic areas: home, transportation, job, school, personal safety, and safety for children.
- Learns about **basic first aid** treatment and care such as bites, bleeding, burns, fractures, and choking, taking a temperature or pulse, and blood pressure reading.

Foreign Language

French (PACEs 1097-1108)

High school students are introduced to the French language with special emphasis on developing good reading skills. Upon completion, students should have an understanding of the accidence (inflection of words) of the French language and will have had several opportunities to utilize the lessons learned through practice reading and taped lectures.

Greek I (Self-Pacs 121-132)

This is an introductory course in the Greek of the New Testament designed to enable the student to read from the Greek New Testament. Vocabulary, grammar, and accidence (inflection of words) are the major studies, ending with an application of all grammar learned by translating I John.

Required resources: *Greek New Testament* (Textus Receptus) and *Greek Handbook*

Spanish

The exciting Spanish I course represents a first in the **Video-Activity Pac format**. The videos present the instructional content, and the Activity Pacs provide the drill and learning activities. The course consists of 24 instructional videos, 12 Activity Pacs, 1 Test video, and 4 Score Keys.

Videos are required.

Rosetta Stone® (2 credits)

The student:

- Is immersed in a new language from the beginning with no translation.
- Acquires new language through real-life images and the voices of native speakers.

Level 1* Languages:

Arabic	Hebrew	Pashto	Swedish
Chinese	Hindi	Polish	Thai
Danish	Indonesian	Portuguese	Turkish
Dutch	Italian	Russian	Vietnamese
English US or UK	Japanese	Spanish	Welsh
French	Korean	(Latin America or Spain)	
German	Latin	Swahili	

Level 2* Languages:

Arabic	English US or UK	Italian	Russian
Chinese	French	Japanese	Spanish
Dutch	German	Portuguese	(Latin America or Spain)

*Each Level 1 course consists of eight units. Each four units are worth one credit, and upon completion of all eight units the student will earn two credits in the language. Each Level 2 course consists of eleven units. The first five units are worth one credit and the last six units will earn the student a second credit.

Foreign Curriculum

Spanish

Our Spanish-speaking friends will be pleased with the curriculum that has been translated into Spanish.

Full courses are available in:

- *ABCs with Ace and Christi* Learning-to-Read Program
- Math: Grades 1-6
- Social Studies: Grades 1-6
- Science: Grades 1-6
- Word Building: Grades 1-2
- Spanish Grammar: Grades 1-5
- Cursive Handwriting (to be used with third grade curriculum)

For a complete listing of all Spanish material, call 1-800-925-7777.

French

Francophones around the world can find elementary material in French offered in the following courses:

- *ABCs with Ace and Christi* Learning-to-Read Program
- Bible Reading: Grade 1
- Animal Science: Grade 1
- French language: Grades 1-3
- Social Studies: Grades 1-3
- Word Building: Grades 1-3

For a complete listing of all French material, call 1-800-925-7777.