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Language Arts

English 7, Semester A

Unit 1: Courage and Survival
This unit focuses primarily on essential reading skills, such as understanding prefixes, suffixes, roots, phrases, clauses, character development, point-of-view, plot, and themes. Learners read a variety of texts, focusing on novels with themes of courage and survival.

Unit 2: Facing Challenges
This unit focuses primarily on essential reading skills, such as synonyms, antonyms, tenses, modifiers, and text and organizational structures. Learners read a variety of nonfiction texts to learn about both faraway places and people—and those closer to home—who have faced a variety of challenges.

Unit 3: Human Ingenuity
This unit focuses on reading skills, such as context clues, parts of speech, summarizing passages, purpose, main idea, supporting details, and oral presentations. Learners read a variety of passages for main ideas and details and present both oral and written summaries of their findings.

Unit 4: Writer’s Workshop
This unit delves deeply into a variety of writing skills, including grammar, mechanics, capitalization, proper nouns, topic selection, note-taking, peer review, and drafting.

English 7, Semester B

Unit 1: Poetry Workshop
Learners study and apply grammar rules regarding subject-verb agreement and pronouns and explore a variety of poetic forms. Learners study poetry types, figurative language, imagery, and tone as they analyze and write poetry.

Unit 2: Convictions
Learners examine a variety of informational texts and then write persuasive essays by supporting original theses with facts and evidence.

Unit 3: Beyond Stereotypes
Learners examine authors’ uses of symbolism, dialogue, and description as they learn about bias and stereotyping, examine advertising strategies, and participate in group discussions.

Unit 4: Research Project
Learners use conventions in grammar and spelling as they conduct an in-depth research project by following the writer’s workshop process.

English 8, Semester A

Unit 1: Who I Am, Who I Want to Be
Learners explore strategies for determining word meaning. They read a variety of fictional works to both understand the elements of plot and determine how authors use historical contexts in their writing. Learners also experiment with script-writing.

Unit 2: Poetry Workshop
Learners explain uses of figurative language and explore their uses through poetry analysis and writing. Learners also learn about correct use of quotation marks and contractions.

Unit 3: Heritage
Learners explore stories of perseverance and heritage as they learn about summarizing texts and the different techniques that can help them understand informational texts. Learners also practice using modifiers with and without –ly.

Unit 4: Writer’s Workshop
Learners practice writing skills, including using sentence variety, distinguishing phrases and clauses, and vocabulary development, as they complete a research paper using a writer’s workshop process.

**English 8, Semester B**

**Unit 1: Plays**
Learners examine a variety of plays to determine the influence history and culture can have on the plot elements and tone of a work. Learners also focus on paraphrasing, the use of active voice, and idiom.

**Unit 2: Persuasion**
Learners practice accessing prior knowledge, using visualization techniques, and creating graphic organizers to increase reading comprehension.

**Unit 3: Mythology**
Learners analyze word choice and learn the conventions of mythology as well as comparison and contrast essay writing. In skills building, learners work with homonyms, fix double negatives, and write effective transitions.

**Unit 4: Research Project**
Learners participate in collaborative research projects as they pose questions, separate fact from opinion, select and analyze Internet resources, and collaboratively write, revise, and present their projects.

**English 9, Semester A v3.0 - also available in vCourses**

**Unit 1: Persuasion and Audience**
Learners explore a variety of media messages and propaganda techniques and the impact that they can have on the reader.

**Unit 2: Using Your Imagination**
Learners practice accessing prior knowledge, using visualization techniques, and creating graphic organizers to increase reading comprehension.

**Unit 3: Analysis Narratives**
Learners establish goals as they identify literary elements as well as facts and opinions in literature.

**Unit 4: Reading and Interpreting Poetry**
Learners are exposed to a variety of poetry types, as well as to how the language of poetry speaks to individuals and groups.

**Unit 5: Using and Understanding Dialogue**
Learners analyze how and when dialogue is effectively used in literature.

**English 9, Semester B v3.0 - also available in vCourses**

**Unit 1: Understanding the Main Idea**
Learners will analyze the main idea of a written work and explore the differences and similarities between habits, traditions, and customs as they read the work.

**Unit 2: Understanding and Appreciating Differences**
Learners will read a variety of literature and analyze differences in perspective to increase their awareness, understanding, acceptance, and appreciation of individual and group differences.

**Unit 3: Reading and Writing Letters**
Learners will apply the structural, linguistic, and punctuation rules pertaining to the business and personal forms of letters.

**Unit 4: Conducting Research**
Learners will research a topic, draw conclusions from the research, and give an analysis, along with supporting evidence. Learners will also explore the contributions that American inventors have made through their inventions.

**English 10, Semester A – also available in vCourses**

**Unit 1: Preparing for the Workplace**
Learners improve reading strategies by finding out what resources to use while reading, what questions to ask while reading, how to find answers to those questions, and how to review material they have read. Learners will also analyze technical documents, learn how to conduct a career search, and apply writing skills to writing a business letter.

**Unit 2: Critical Reading**
Learners build vocabulary and improve reading comprehension by reading social science–related literature. They also conduct critical research, read and evaluate articles, and express conclusions by synthesizing findings in a presentation.

**Unit 3: Persuasion**
Learners develop techniques to strengthen arguments, motivate audiences, and influence thinking. They also apply grammar conventions and conduct peer reviews to improve their writing.

**Unit 4: Reading Historical Fiction**
Learners study how history influences literature and how literature reveals history, helping them to better understand and interpret historical fiction and to notice and comprehend historical references in works they read.

**Unit 5: Writing for Precision**
Learners practice selecting and focusing on a topic, using precise wording, and creating and applying correct grammar to their writing. They then apply those skills to writing a research paper and conducting peer reviews to improve their writing.

**English 10, Semester B – also available in vCourses**

**Unit 1: Building Reading Strategies**
Learners develop strategies that will help them improve their vocabulary and increase their reading comprehension.

**Unit 2: Reading Sciences**
Learners develop science vocabulary, read and analyze scientific articles and essays, and write a position paper.

**Unit 3: Analysis of Fiction**
Learners identify and describe elements of plot and characters from a story as well as analyze and critique literature.

**Unit 4: Analysis of Poetry**
Learners will identify and describe literary devices, explore and analyze various writing techniques used in poetry, and apply this knowledge to write poetry.

**Unit 5: Narratives**
Learners apply writing strategies learned in previous units to their personal narrative writings.

**English 11, Semester A – also available in vCourses**

**Unit 1: The Writing Process**
This unit focuses on early American literature through 1800. Learners will analyze the theme and style of texts from this period. They will focus on literary forms, techniques, and style. They will also continue to learn about writing skills, including the use of basic rules of spelling and grammar.
Unit 2: Early American Literature (to 1800)
This unit focuses on early American literature through 1800. Learners will analyze the theme and style of texts from this period. They will focus on literary forms, techniques, and style. They will also continue to learn about writing skills, including the use of basic rules of spelling and grammar.

Unit 3: Fiction
This unit focuses on the structure of fiction, including plot, setting, tone, characterization, and theme. Learners will explore these elements of fiction through reading passages and creating their own original writing.

Unit 4: American Romanticism Literature (1800–1860)
This unit focuses on American Romanticism literature from 1800–1860. Learners will focus on elements of text, including main ideas and supporting details. They will also learn about specific reading and writing skills, such as understanding the main idea and writing summaries.

Unit 5: American Masters Literature
This unit focuses on the American Masters (primarily Walt Whitman and Emily Dickinson) in literature. Learners will read a variety of passages to analyze theme and style in poetry. Learners will also develop their understanding of vocabulary.

English 11, Semester B – also available in vCourses

Unit 1: America Grows Up (1860–1914)
This unit focuses on American literature from the Civil War through the early twentieth century. Learners will analyze the theme and style of works. In addition, learners will focus on elements of grammar and implied meanings in some lessons.

Unit 2: Poetry
This unit focuses on elements of poetry. Learners will read a variety of passages, primarily from the poetry of Walt Whitman and Emily Dickinson, to learn about rhyme scheme, meter, and recitation. Learners will also create original poetry.

Unit 3: Prosperity and Depression Literature (1914–1939)
This unit focuses on American literature from the start of World War I through the Roaring Twenties and the Great Depression. Learners will read passages from a variety of selections from this period and will analyze literature for the author’s unique style, use of analogy, and general grammar conventions.

Unit 4: Contemporary American Literature (1939–Present)
This unit focuses on contemporary literature of the mid-twentieth century through today. Learners will read a variety of texts and passages from Southern Gothic to works borne of the Harlem Renaissance and the civil rights movement, Hispanic American writings, and postmodernism. Learners will also focus on elements of grammar and enhance their reading skills by learning how to use textual clues and how to understand the structure and organization of nonfiction texts.

Unit 5: Historical Investigative Reports
This unit focuses on the analysis of expository and literary texts. Learners will develop skills that help them to analyze and present information. The unit culminates in a project in which learners will write a historical investigative report.

English 12, Semester A – also available in vCourses

Unit 1 The Writing Process
This unit focuses on basic skills, sentence structure, and the steps of the writing process. Learners experiment with sentence structure and work on the skills of peer reviewing and revising their own writing.

Unit 2: Early English Literature
This unit focuses on basic skills, such as word origins, and also introduces students to themes found in literature, plot, and setting. Learners will experiment with logical sequencing to understand directions,
comparisons, and cause and effect. This symbol (***) indicates that there are additional resource materials that must be downloaded for students to complete the online courseware. These materials can be found on the Edmentum Support Site.

Unit 3: Rhetoric and Persuasion
This unit focuses on skills development in the areas of subject and predicate relationships, connotation and denotation in word study, and elements of grammar. Learners will analyze media tactics and persuasive elements in political speeches.

Unit 4: The English Renaissance
This unit focuses on grammar and language skills. Learners will develop their abilities to write business letters and analyze information that is presented graphically. Learners will analyze aspects of drama, culminating in an analysis of a play by Shakespeare. This symbol (***) indicates that there are additional resource materials that must be downloaded for students to complete the online courseware. These materials can be found on the Edmentum Support Site.

Unit 5: Poetry
This unit focuses on poetry as students explore the uses of figurative language in this genre. Learners examine the meanings and conventions of figurative language and will develop language and grammar skills.

English 12, Semester B – also available in vCourses

Unit 1: The Age of Reason
This unit focuses on a variety of literature types as students explore themes in works by authors such as Alexander Pope and Jonathan Swift. Learners examine analogy and satire in literature and learn about the variety of writing styles that can be employed in autobiography and persuasive speech. Skills work focuses on spelling rules.

Unit 2: Fiction and Nonfiction Writing
Learners will explore fiction techniques, concentrate on identifying characteristics and tone in different types of texts, and write an original short story. Skills work focuses on punctuation.

Unit 3: Romantic and Victorian Literature
This unit focuses on the romantic and Victorian ages in British literature, with an examination of works by authors such as William Wordsworth, Samuel Taylor Coleridge, John Keats, Nathaniel Hawthorne, and Charles Dickens. Learners examine allegory in literature and focus their skill development on vocabulary development. They will also create interpretive presentations through both writing and performance. This symbol (***) indicates that there are additional resource materials that must be downloaded for students to complete the online courseware. These materials can be found on the Edmentum Support Site and are accessed via the Edmentum Course Teacher Learning Path.

Unit 4: Contemporary Literature
Learners will focus their skills development on using parallel structures in writing, summarizing text, and understanding idioms. They will work on research skills such as finding main ideas and identifying details that support the main idea and will explore universal themes in contemporary literature.

Unit 5: The Research Essay
This unit focuses on developing research skills, including asking and answering questions, finding resources, and preparing for review, and culminates in writing an extended research paper. Skills work focuses on reading strategies and understanding the root meanings of words.

Advanced English – AP* Edition, Semester A – also available in vCourses

Unit 1: Writing Academic Arguments about Literature
Learners explore arguments in literature and the role of “reader as writer.” They analyze and evaluate academic arguments, recognizing the impact of a thesis. Learners will develop their own writing through use of evidence while focusing on common writing mistakes and effective revision techniques.
Unit 2: Reading and Writing about Essays

Learners practice actively reading and critically annotating several types of essays. Learners will also identify and explain uses of key rhetorical elements and evaluate elements of persuasive essays. Learners end the unit by applying these principles as they draft and revise a college entrance personal essay.

Unit 3: Reading and Writing about Poetry

Learners explore poetic structure and meaning, analyzing how tone, diction, allusion, and other poetic devices impact the poem. Learners explore denotative and connotative meaning, as well as rhythm, meter, and sound devices throughout the unit.

Unit 4: Close Analysis of Poetic Form and Content

Learners apply knowledge from Unit 3 as they closely analyze poetry of different themes – love, death, fathers, and war. As they analyze poetry through their writing, learners close the unit by choosing one piece of writing to revise and improve.

Unit 5: Writing an Extended Interpretation of a Poem

Building on their knowledge from Unit 4, learners spend Unit 5 writing essays about poetry they read. Learners develop thesis statements, support through evidence, and strengthen writing with transitions. Learners practice evaluating the effectiveness of essays by answering “So what?” and “How so?” throughout the paper before moving on to the revision stage.

Advanced English – AP* Edition, Semester B – also available in vCourses

Unit 1: Writing Academic Arguments about Literature

Learners actively read types of fiction, collecting literary evidence to support a thesis. Learners explore elements of fiction, such as character and dialogue, point of view, plot and structure, setting, irony, tone, and theme. Learners recognize effective approaches to writing critical essays on works of fiction.

Unit 2: Close Analysis and Interpretation of Short Fiction

Diving deeper, learners evaluate the effectiveness of active reading techniques when applied to reading a representative essay. Learners explore the literary effect of character, point of view, plot and structure, and theme in short stories, as well as analyze the historical and cultural context of these stories. Learners apply their knowledge from Unit 1 as they write an academic argument, identifying the effective elements of a short story.

Unit 3: Close Analysis and Interpretation of the Novel

Learners explore major literary periods through the novel. Learners read Frankenstein as they learn about developing an interpretive essay. Learners also practice writing skills, including thesis, supporting evidence, coherence, and revision of writing.

Unit 4: Reading and Writing about Plays

Learners read a variety of plays as they learn to identify key elements, such as theme, plot and structure, character, gestures, and setting. Learners analyze characterization in plays and weigh the effectiveness of essays before writing their own. Learners then move through the writing process to complete an interpretive essay on a play.

Unit 5: Writing a Research-Based Literary Interpretation

Learners identify common literary theories to critical literary interpretation to prepare for a research-based interpretive essay. Learners review the writing process, as well as gather, document, and paraphrase information during the research process. Using MLA in-text citation for quotes and paraphrased information, learners cite sources in footnotes or endnotes and include a list of works cited.
Pre-Algebra, Semester A

Unit 1: Whole Numbers
In this unit, students will perform the four operations (addition, subtraction, multiplication, and division) on whole numbers. They will explore the properties of whole numbers by comparing and ordering them, estimating, practicing special divisibility rules, and working with the commutative, associative, and distributive properties. They will also solve problems involving whole numbers and the operations.

Unit 2: Fractions
In this unit, students will perform the four basic operations on fractions, as well as find the factors, prime factors, and greatest common factors of numbers in order to perform those operations. They will also find reciprocals and simplify fractions, as well as compare and order fractions and solve problems involving fractions.

Unit 3: Decimals
This unit starts with decimal concepts such as place value and connections between decimals and fractions and whole numbers. Students will also perform the four basic operations on decimal numbers and will explore repeating decimals, rational and irrational numbers, mental math techniques with whole numbers and decimals, and will solve problems with decimal numbers.

Unit 4: Ratios and Proportions, Percents, and Measurement
This unit starts by introducing the concept of percent and how it relates to fractions and decimals. It allows students to calculate percents (i.e., finding the percent of a whole or decimal number), find percent increases and decreases, solve problems with percents, and use mental math with fractions and percents. Students will then explore ratios and proportions, find proportions, and work with scaling and proportion. Students will also work with units of length, capacity, and weight and mass, and convert between Celsius and Fahrenheit temperatures.

Pre-Algebra, Semester B

Unit 1: Integers
In this unit, students explore the basic concepts of integers, including addition, subtraction, multiplication, and division. Students also learn about expressing integers in exponential and expanded forms, finding square roots of perfect and imperfect squares, writing numbers in scientific notation, and solving word problems with integers.

Unit 2: Geometry
In this unit, students explore the meaning of lines, angles, and planes, as well as types of polygons and types of solid figures. They also explore special types of angles and triangles, including right triangles and the Pythagorean Theorem. They find circumference and perimeter, area of polygons and circles, volume, and surface area. They distinguish parallel and perpendicular lines, congruent and similar figures, and explore transformations such as translations and rotations, as well as tessellations.

Unit 3: Statistics and Graphs
In this unit, students focus on statistical tools such as bar graphs, line graphs, scatter plots, and central tendencies. Students also learn about conducting surveys and experiments to collect data as well as determining probability of an event and a chance experiment. Additionally, they explore ways to critically analyze data and find trends in data.

Unit 4: Expressions, Equations, and Inequalities
In this unit, students use the order of operations to evaluate expressions, perform operations on monomials and binomials, solve linear equations and inequalities, graph linear equations, and find slopes and y-intercepts.

Algebra 1, Semester A – also available in vCourses
Unit 1: Relationships Between Quantities and Reasoning with Equations
This unit focuses on three CCSS domains that relate to expressions and equations:
A.SSE: Seeing Structure in Expressions
A.CED: Creating Equations
A.REI: Reasoning with Equations and Inequalities

Unit 2: Linear and Exponential Relationships
This unit focuses on three CCSS domains as they relate to quadratic relationships:
N.RN: The Real Number System
A.REI: Reasoning with Equations and Inequalities
F.IF: Interpreting Functions
F.BF: Building Functions

Algebra 1, Semester B – also available in vCourses
Unit 1: Expressions and Equations
This unit focuses on three CCSS domains that relate to expressions and equations:
A.APR: Arithmetic with Polynomials and Rational Expressions
A.REI: Reasoning with Equations and Inequalities

Unit 2: Quadratic Functions and Modeling
This unit focuses on three CCSS domains as they relate to quadratic relationships:
F.IF: Interpreting Functions
F.BF: Building Functions
F.LE: Linear, Quadratic, and Exponential Models

Unit 3: Descriptive Statistics
This unit focuses on a single CCSS domain:
S.ID: Interpreting Categorical and Quantitative Data

Algebra 2, Semester A – also available in vCourses
Unit 1: Polynomial, Rational, and Radical Relationships
This unit focuses the following CCSS domains that relate to polynomial, rational, and radical relationships:
A.APR: Arithmetic with Polynomials and Rational Expressions
A.REI: Reasoning with Equations and Inequalities
A.SSE: Seeing Structure in Expressions
N.CN: The Complex Number System
F.IF: Interpreting Function

Algebra 2, Semester B – also available in vCourses
Unit 1: Trigonometric Functions
This unit focuses on a single CCSS domain that relates to trigonometric functions:
F.TF: Trigonometric Functions

Unit 2: Modeling with Functions
This unit focuses on three CCSS domains as they relate to quadratic relationships:
A.CED: Creating Equations
F.BF: Building Functions
F.LE: Linear, Quadratic, and Exponential Models

Unit 3: Inferences and Conclusions from Data
This unit focuses on these CCSS domains that relate to analysis of data:
S.ID: Interpreting Categorical and Quantitative Data
S.IC: Making Inferences and Justifying Conclusions
S.MD: Using Probability to Make Decisions
Geometry, Semester A – also available in vCourses

Unit 1: Geometry Basics, Points, Lines, Planes, and Angles
This unit focuses on geometric problem-solving strategies, reasoning, conjectures, and the history of geometric systems. The unit also explores elements of geometry, including points, lines, planes, and angles.

Unit 2: Parallel and Perpendicular Lines and Triangles
This unit focuses primarily on parallel and perpendicular lines, special angles, and triangles. Learners also write geometric proofs and explore congruence and inequality.

Unit 3: Polygons and Area
This unit focuses on a variety of geometric shapes, including quadrilaterals, squares, rectangles, rhombi, parallelograms, trapezoids, and triangles. Learners compute area for a variety of shapes.

Unit 4: Solid Figures and Volume
This unit focuses on solid figures, such as prisms, spheres, and polyhedra. Learners practice visualizing and finding the area and volume of three-dimensional objects.

Geometry, Semester B – also available in vCourses

Unit 1: Geometry of the Right Triangle and Right Triangle Trigonometry
This unit focuses on solving problems using right angles. Learners will use the Pythagorean Theorem and various trigonometric functions.

Unit 2: Similarity, Congruency, and Transformations
This unit focuses primarily on geometric transformations, including congruence, similarity, symmetry, translations, and rotations. Learners will also use ratio and proportion and explore translations in real world situations.

Unit 3: Circles
This unit focuses on the properties and attributes of circles, including arcs, chords, and angles. Learners also calculate area and circumference of circles.

Unit 4: Geometry of the Coordinate Plane
This unit focuses on coordinate planes, including length, midpoint, slope, vectors, and transformations on a plane. Learners will use a variety of problem-solving strategies.

Consumer Mathematics – also available in vCourses

Unit 1: Mathematics Review
This unit covers approximately three weeks of instruction. It explains how four basic mathematical operations—addition, subtraction, multiplication, and division—can be used to solve real-life problems. It discusses how calculators simplify the process of solving such problems. Because students will come across situations in this course in which they will have to use fractions, decimals, and percentages, this section talks about the relationships between those elements and explains how they should be solved.

Unit 2: Consumer Mathematics Skills
This unit covers approximately two weeks of instruction. It presents the factors that decide the cost and price of an item and discusses how paying sales tax and discounts affect the total price of an item. This unit also explains how to calculate sales tax and consumer discounts. In addition, it explains the necessity of giving tips to certain service providers and offers guidelines for determining the amount of a tip.

Unit 3: Wages, Income Tax, and Money Management
This unit covers approximately two to three weeks of instruction. Once students start earning their own money, they will need to understand various options available to manage it. This unit will teach students how to correctly interpret a paycheck and understand paycheck deductions. It also presents the
importance of paying taxes, the requirements for filing income tax returns, and the steps involved in calculating tax. This unit explains how students can regulate their income and expenditures by creating and following a budget. It discusses how they can use checking and savings accounts to protect and manage their money. It also shows how they can increase their money and plan a financially secure future by choosing a good investment strategy.

Unit 4: Interest and Credit

This unit covers approximately two to three weeks of instruction. It deals with obtaining and repaying loans, as well as the various types of interest on loans and how interest is calculated. This unit also discusses the concept of credit, including how credit should be correctly used and managed and how building a good credit history has important benefits.

Unit 5: Large Purchases

This unit covers approximately two weeks of instruction. It will help students make important decisions about buying or leasing a car and buying or renting a home. It presents the factors student should consider—such as costs, requirements, and personal preferences—that will help them make an informed choice. This unit also discusses the importance of insurance, different types of insurance, and how different insurance plans suit different purposes.

Unit 6: Economics and Finance

This unit covers approximately two weeks of instruction. It explores how economics affects society, from a personal to a global level. This unit addresses the relevance of economic principles in everyday life and why we should be aware of them. It describes the concept of supply and demand and explains how the relationship between supply and demand affects the price we pay for goods and services. On a larger scale, this unit presents the economic indicators that describe a nation’s economy. It also explains how the interaction between nations through international trade affects the global economy.

Precalculus, Semester A — also available in vCourses

Unit 1: Equations and Inequalities

This unit provides the conceptual understanding of equations and inequalities. It begins by identifying different types of equations and inequalities and methods of solving them. It then explores linear equations in one and two variables and how to solve for a given variable. This unit also includes inequalities and how to solve for and represent their answers. The unit concludes by exploring absolute value equations and complex numbers and the correct steps to solve for them, as well as the three equation types, radical, rational, and power equations. This unit is essential in precalculus because it is a building block for later units.

Unit 2: Graphs

This unit provides a basic understanding and application of graphs. The unit starts with the coordinate system and reviews how to graph equations. It shows how, given two graphed points, you can find the distance, midpoint, and equations of lines. It goes on to explain linear equations and their applications in-depth. It concludes by explaining linear regression, which allows for multiple points of data to be included when finding a linear equation that represents a set of data.

Unit 3: Functions and Their Graphs

This unit introduces the concept of functions, a core concept in precalculus. The rest of the course will be based on functions and function notation. The unit begins by describing functions in terms of their graphs and how transformations produce changes in the graphs. The unit shows how to combine functions and find inverse functions. It also presents many real-world applications of functions, showing how to represent them as functions and solve them both mathematically and graphically.

Unit 4: Polynomial and Rational Functions

This unit is important in precalculus because it extends students’ previous knowledge of quadratic functions into the realm of polynomial and rational functions, whose solutions require a variety of methods of factoring and finding roots. It then explains how to graph these functions, both by hand and with the
use of a calculator. This unit concludes with how to solve polynomial and rational inequalities. This unit will allow students to work through many real-world examples based on polynomial and rational functions.

Unit 5: Exponential and Logarithmic Functions

This unit is important in precalculus because many real-world problems can be explained and solved using exponential and logarithmic functions. The unit begins by introducing the basic forms of these functions and explaining how to solve for and graph them. It then discusses how to apply the functions to real-world situations and solve them. Overall, this unit covers how to recognize, write, and graph various exponential and logarithmic functions and use their properties to manipulate expressions and solve equations.

Unit 6: Trigonometric Functions

In this unit, students learn about one of the key concepts in precalculus, trigonometry. This unit introduces the trigonometric functions by describing the interrelationships between the unit circle, angles, and their relationship to the Cartesian plane. This unit begins by reviewing some basic concepts relating to angles and expands to include the unit circle and trigonometric functions. It then covers the definition, description, and illustration of the key concepts of the trigonometric functions, including their relationship to angles, the unit circle, right triangles, graphs, periodic functions, and inverse trigonometric functions.
Unit 6: Limits: Introduction to Calculus

This unit serves as a bridge from precalculus to calculus by introducing the fundamental concepts used in calculus, specifically limits, derivatives, and integrals. The unit begins by introducing the concept of a limit, and describes an iterative process to estimate limits using a table of values. The unit then explores limits in more depth, describing some basic arithmetic properties, as well as how to use limits to determine the continuity of a function. Lastly, the unit introduces derivatives by determining the slope of a tangent line at a point, and integrals by finding the area under a curve.

Advanced Calculus – AP* Edition, Semester A – also available in vCourses

Unit 1: Functions/Prerequisites for Calculus

Learners explore functions and demonstrate graphing, manipulation and application of functions. Linear and trigonometric functions are reviewed, as well as their graphs. Learners categorize and describe functions, use different graphing methods, and explore transformation of functions.

Unit 2: Limits

Learners examine the tangent problem and relate it to instantaneous velocity. Learners study limits using both a numerical and graphical approach, and calculate limits using the limit laws. The Squeeze Theorem and Intermediate Value Theorem are applied, and learners apply the precise definition of a limit to a function on a continuous interval.

Unit 3: Derivatives

Learners explore derivatives in order to apply differentiation techniques in rates of change problems in the real world. Calculating rate of change, graphing, and determining differentiability and continuity are covered in this unit. Learners apply rules for differentiating functions and explore higher order derivatives. Learners explore Trigonometric and Implicit Functions, as well as differentiate using the chain rule.

Unit 4: Applications of Derivatives

Building on the knowledge gained in Unit 3, learners continue to work with derivatives. Learners explore Fermat’s Theorem, Newton’s Method, the Mean Value Theorem, Rolle’s Theorem, and the First and Second Derivative Tests. Learners apply techniques from limits and derivatives to curve sketching, calculate related rates problems, and perform differentiation in order to solve applied problems in the areas of physics, business and economics.

Advanced Calculus – AP* Edition, Semester B – also available in vCourses

Unit 1: The Definite Integral

Learners explore the concept of the antiderivative by using the derivative. Learners find the area under a curve and use sigma notation to simplify limit problems. The Definite Integral is explored as learners use the comparison properties to ensure a plausible answer for a definite integral. Learners use the Net Change Theorem and perform integration using the Substitution Rule and use of tables of indefinite integrals. Learners continue working with performing integration of symmetric functions.

Unit 2: Applications of Integrals

Using the knowledge from Unit 1, learners work with the application of integrals. Learners determine the area between two curves, calculate work, and use the Mean Value Theorem for Integrals to find average values. Volume is explored through both the Disk Method and the Cylindrical Shells Method. In both methods, learners are challenged to use technology and graphing to visualize the shapes, and perform integration to find the volume.

Unit 3: Inverse Functions

Differentiating and evaluating integrals that include exponential and logarithmic functions begin this unit. Exponential growth and decay, as well as L’Hôpital’s Rule are explored. Learners continue to work with differentiating and evaluating integrals of Inverse Trigonometric and Hyperbolic Trigonometric Functions in the second half of the unit.

Unit 4: Techniques of Integration
Learners work with a variety of integration techniques in this unit, beginning with integration by parts. Learners evaluate complex trigonometric functions and evaluate integrals by trigonometric substitution. Learners explore integration by partial fractions and the use of integration tables, and technology that can be used to evaluate integrals. A variety of methods (Midpoint Rule, Trapezoidal Rule, Simpson’s Rule) for approximating an integral are used to explore graphically and calculate area, challenging learners to compare the results among methods. Improper integrals are evaluated.

Unit 5: Further Applications of Integration

In the final unit of the course, learners apply their knowledge of integration. Learners calculate the arc length of a continuous curve and surface area in practical settings. Applications to physics, biology, and engineering are explored as learners create and evaluate integrals that represent blood flow and cardiac output. Applications to economics and probability are also explored as learners create and evaluate integrals that represent consumer surplus and probabilities.

Probability and Statistics – also available in vCourses

Unit 1: Representing and Interpreting Data

Summary

This unit focuses on one CCSS domain and cluster:

- S.ID: Interpreting Categorical and Quantitative Data
  - Summarize, represent, and interpret data on a single count or measurement variable.

<table>
<thead>
<tr>
<th>Unit 1: Representing and Interpreting Data</th>
<th>Activity / PLATO Objective / Common Core State Standard</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Day 1–2</td>
<td>Data Plots</td>
<td>Lesson</td>
</tr>
<tr>
<td></td>
<td>■ PLATO Objective: Represent data with plots on the real number line using dot plots, histograms, and box plots.</td>
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<tr>
<td></td>
<td>■ Common Core State Standard: S.ID.1, Represent data with plots on the real number line (dot plots, histograms, and box plots).</td>
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<tr>
<td>3–4</td>
<td>Showing Data Center and Spread</td>
<td>Lesson</td>
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<tr>
<td></td>
<td>■ PLATO Objective: Use statistics appropriate to the shape of the data distribution to compare center and spread of two or more different data sets.</td>
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<tr>
<td></td>
<td>■ Common Core State Standard: S.ID.2, Use statistics appropriate to the shape of the data distribution to compare center (median, mean) and spread (interquartile range, standard deviation) of two or more different data sets.</td>
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<tr>
<td>5–6</td>
<td>Interpreting the Shape of Data Distributions</td>
<td>Lesson</td>
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<tr>
<td></td>
<td>■ PLATO Objective: Interpret differences in shape, center, and spread in the context of the data sets, accounting for possible effects of extreme data points (outliers).</td>
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<tr>
<td></td>
<td>■ Common Core State Standard: S.ID.3, Interpret differences in shape, center, and spread in the context of the data sets, accounting for possible effects of extreme data points (outliers).</td>
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<tr>
<td>7–8</td>
<td>Normal Distributions</td>
<td>Lesson</td>
</tr>
<tr>
<td></td>
<td>■ PLATO Objective: Use the mean and standard deviation of a data set to fit it to a normal distribution and to estimate population percentages.</td>
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<tr>
<td></td>
<td>■ Common Core State Standard: S.ID.4, Use the mean and standard deviation of a data set to fit it to a normal distribution and to estimate population percentages. Recognize that there are data sets for which such a procedure is not appropriate. Use calculators, spreadsheets, and tables to estimate areas under the normal curve.</td>
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<tr>
<td>9–10</td>
<td>Unit Activity—Unit 1</td>
<td>Unit Activity</td>
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<tr>
<td>11</td>
<td>Posttest—Unit 1</td>
<td>Assessment</td>
</tr>
</tbody>
</table>
This unit focuses on one CCSS domain and two related clusters:
- S.ID: Interpreting Categorical and Quantitative Data
- Summarize, represent, and interpret data on two categorical and quantitative variables.
- Interpret linear models.

### Unit 2: Relating Data Sets

<table>
<thead>
<tr>
<th>Day</th>
<th>Activity / PLATO Objective / Common Core State Standard</th>
<th>Type</th>
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</thead>
<tbody>
<tr>
<td>12-13</td>
<td>Relating Categorical Data</td>
<td>Lesson</td>
</tr>
<tr>
<td></td>
<td>- PLATO Objective: Summarize data for two categories in two-way frequency tables and interpret their relative frequencies in the context of the data.</td>
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<tr>
<td></td>
<td>- Common Core State Standard: S.ID.5, Summarize categorical data for two categories in two-way frequency tables, interpret relative frequencies in the context of the data (including joint, marginal, and conditional relative frequencies).</td>
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<td></td>
<td>Recognize possible associations and trends in the data.</td>
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</tbody>
</table>

| 14-15| Interpreting Data as a Line                             | Lesson   |
|      | - PLATO Objective: Interpret the slope and the intercept of a linear model in the context of the data. |          |
|      | - Common Core State Standard: S.ID.7, Interpret the slope (rate of change) and the intercept (constant term) of a linear model in the context of the data. |          |

| 16-17| Relating Quantitative Data                              | Lesson   |
|      | - PLATO Objective: Represent data of two quantitative variables using a scatter plot, describe and fit a function to the data, and solve problems in the context of the data. |          |
|      | - Common Core State Standard: S.ID.6, Represent data on two quantitative variables on a scatter plot, and describe how the variables are related. |          |
|      | - Fit a function to the data; use functions fitted to data to solve problems in the context of the data. Use given functions or choose a function suggested by the context. Emphasize linear, quadratic, and exponential models. |          |
|      | - Informally assess the fit of a function by plotting and analyzing residuals. |          |
|      | - Fit a linear function for a scatter plot that suggests a linear association. |          |

| 18-19| Making and Interpreting Correlations                    | Lesson   |
|      | - PLATO Objective: Use technology to compute and interpret the correlation coefficient of a linear fit. |          |
|      | - Common Core State Standard: S.ID.8, Compute (using technology) and interpret the correlation coefficient of a linear fit. |          |

| 20-21| Correlation Versus Causation                            | Lesson   |
|      | - PLATO Objective: Distinguish between correlation and causation. |          |
|      | - Common Core State Standard: S.ID.9, Distinguish between correlation and causation. |          |

| 22-24| Unit Activity—Unit 2                                    | Unit Activity |
| 25   | Posttest—Unit 2                                         | Assessment    |

### Unit 3: Independent and Conditional Probability

**Summary**

This unit focuses on one CCSS domain and two related clusters:
- Understand independence and conditional probability and use them to interpret data.
- Use the rules of probability to compute probabilities of compound events in a uniform probability model.

### Unit 3: Independent and Conditional Probability

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<thead>
<tr>
<th>Day</th>
<th>Activity / PLATO Objective / Common Core State Standard</th>
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<tbody>
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<tr>
<td>Day</td>
<td>Activity / PLATO Objective / Common Core State Standard</td>
<td>Type</td>
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<tr>
<td>26–27</td>
<td><strong>Sample Space</strong>&lt;br&gt;■ PLATO Objective: Describe events as subsets of a sample space (the set of outcomes).&lt;br&gt;■ Common Core State Standard: S.CP.1. Describe events as subsets of a sample space (the set of outcomes) using characteristics (or categories) of the outcomes, or as unions, intersections, or complements of other events (&quot;or,&quot; &quot;and,&quot; &quot;not&quot;).</td>
<td>Lesson</td>
</tr>
<tr>
<td>28–29</td>
<td><strong>Applying the Addition Rule for Probability</strong>&lt;br&gt;■ PLATO Objective: Apply the Addition Rule, ( P(A \text{ or } B) = P(A) + P(B) - P(A \text{ and } B) ), and interpret the answer in terms of the model.&lt;br&gt;■ Common Core State Standard: S.CP.7. Apply the Addition Rule, ( P(A \text{ or } B) = P(A) + P(B) - P(A \text{ and } B) ), and interpret the answer in terms of the model.</td>
<td>Lesson</td>
</tr>
<tr>
<td>30–31</td>
<td><strong>Applying the Multiplication Rule for Probability</strong>&lt;br&gt;■ PLATO Objective: Apply the general Multiplication Rule in a uniform probability model and interpret the answer in terms of the model.&lt;br&gt;■ Common Core State Standard: S.CP.8. (+) Apply the general Multiplication Rule in a uniform probability model, ( P(A \text{ and } B) = P(A)P(B</td>
<td>A) = P(B)P(A</td>
</tr>
<tr>
<td>32–33</td>
<td><strong>Independent Events</strong>&lt;br&gt;■ PLATO Objective: Understand how to determine whether two events are independent of each other.&lt;br&gt;■ Common Core State Standard: S.CP.2. Understand that two events A and B are independent if the probability of A and B occurring together is the product of their probabilities, and use this characterization to determine if they are independent.</td>
<td>Lesson</td>
</tr>
<tr>
<td>34–35</td>
<td><strong>Using Counting Techniques to Determine Probabilities</strong>&lt;br&gt;■ PLATO Objective: Use permutations and combinations to compute probabilities of compound events and to solve problems.&lt;br&gt;■ Common Core State Standard: S.CP.9. (+) Use permutations and combinations to compute probabilities of compound events and solve problems.</td>
<td>Lesson</td>
</tr>
<tr>
<td>36–37</td>
<td><strong>Conditional Probability</strong>&lt;br&gt;■ PLATO Objective: Understand the conditional probability of event A given event B and interpret the independence of events A and B.&lt;br&gt;■ Common Core State Standard: S.CP.3. Understand the conditional probability of A given B as ( P(A \text{ and } B)/P(B) ), and interpret independence of A and B as saying that the conditional probability of A given B is the same as the probability of A, and the conditional probability of B given A is the same as the probability of B.</td>
<td>Lesson</td>
</tr>
<tr>
<td>38–40</td>
<td>Unit Activity—Unit 3</td>
<td>Unit Activity</td>
</tr>
<tr>
<td>41</td>
<td>Posttest—Unit 3</td>
<td>Assessment</td>
</tr>
</tbody>
</table>

**Unit 4: Applying Probability**

**Summary**
This unit focuses on two CCSS domains and three related clusters:
■ **S.CP: Conditional Probability and the Rules of Probability**
  □ Understand independence and conditional probability and use them to interpret data.
  □ Use the rules of probability to compute probabilities of compound events in a uniform probability model.
■ **S.MD: Using Probability to Make Decisions**
  □ Use probability to evaluate outcomes of decisions.

<table>
<thead>
<tr>
<th>Day</th>
<th>Activity / PLATO Objective / Common Core State Standard</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>42–43</td>
<td><strong>Interpreting Two-Way Frequency Tables</strong>&lt;br&gt;■ PLATO Objective: Use a two-way table as a sample space to decide whether events are independent and to approximate conditional probabilities.</td>
<td>Lesson</td>
</tr>
<tr>
<td>Day</td>
<td>Activity / PLATO Objective / Common Core State Standard</td>
<td>Type</td>
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</tr>
<tr>
<td>44–45</td>
<td>Using Probability to Make Fair Decisions</td>
<td>Lesson</td>
</tr>
<tr>
<td></td>
<td>PLATO Objective: Apply counting rules to determine probabilities and use them to make fair decisions.</td>
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<tr>
<td></td>
<td>Common Core State Standard: S.MD.6. (+) Use probabilities to make fair decisions (e.g., drawing by lots, using a random number generator).</td>
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<tr>
<td>46–47</td>
<td>Using Probability to Analyze Decisions and Strategies</td>
<td>Lesson</td>
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<tr>
<td></td>
<td>PLATO Objective: Apply counting rules to analyze decisions and strategies using probability concepts.</td>
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<td></td>
<td>Common Core State Standard: S.MD.7. (+) Analyze decisions and strategies using probability concepts (e.g., product testing, medical testing, pulling a hockey goalie at the end of a game).</td>
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<tr>
<td>48–49</td>
<td>Applying Conditional Probability and Independence</td>
<td>Lesson</td>
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<tr>
<td></td>
<td>PLATO Objective: Recognize and explain the concepts of conditional probability and independence in everyday language and everyday situations.</td>
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<tr>
<td></td>
<td>Common Core State Standard: S.CP.5. Recognize and explain the concepts of conditional probability and independence in everyday language and everyday situations.</td>
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<tr>
<td>50–51</td>
<td>Interpreting Conditional Probability</td>
<td>Lesson</td>
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<tr>
<td></td>
<td>PLATO Objective: Find the conditional probability of event A as it relates to event B and interpret the answer in terms of the model.</td>
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<tr>
<td></td>
<td>Common Core State Standard: S.CP.6. Find the conditional probability of A given B as the fraction of B’s outcomes that also belong to A, and interpret the answer in terms of the model.</td>
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<tr>
<td></td>
<td>Unit Activity—Unit 4</td>
<td>Unit Activity</td>
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<tr>
<td>52–54</td>
<td>Posttest—Unit 4</td>
<td>Assessment</td>
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</tbody>
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### Unit 5: Making Inferences and Conclusions

**Summary**

This unit focuses on one Common Core State Standard domain and its two related clusters:

- S.IC: Making Inferences and Justifying Conclusions
  - Understand and evaluate random processes underlying statistical experiments.
  - Make inferences and justify conclusions from sample surveys, experiments, and observational studies.

**Unit 5: Making Inferences and Conclusions**

<table>
<thead>
<tr>
<th>Day</th>
<th>Activity / PLATO Objective / Common Core State Standard</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>56–57</td>
<td>Making Inferences Based on Statistics</td>
<td>Lesson</td>
</tr>
<tr>
<td></td>
<td>PLATO Objective: Understand statistics as a process for making inferences about population parameters based on a random sample from that population.</td>
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<tr>
<td></td>
<td>Common Core State Standard: S.IC.1. Understand statistics as a process for making inferences about population parameters based on a random sample from that population.</td>
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<tr>
<td>58–59</td>
<td>Evaluating the Validity of a Statistical Model</td>
<td>Lesson</td>
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<tr>
<td></td>
<td>PLATO Objective: Decide if a specified model is consistent with results from a given data-generating process (such as a simulation).</td>
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<tr>
<td></td>
<td>Common Core State Standard: S.IC.2. Decide if a specified model is consistent with results from a given data-generating process, e.g., using simulation.</td>
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<tr>
<td>60–61</td>
<td>Using Statistics in Surveys, Experiments, and Studies</td>
<td>Lesson</td>
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<tr>
<td><strong>Unit 6: Using Probability to Make Decisions</strong></td>
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<tr>
<td><strong>Summary</strong></td>
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<tr>
<td>This unit focuses on one Common Core State Standard domain and its two related clusters:</td>
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<tr>
<td>- S.MD: Using Probability to Make Decisions</td>
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<tr>
<td>- Calculate expected values and use them to solve problems.</td>
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<tr>
<td>- Use probability to evaluate outcomes of decisions.</td>
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<th><strong>Unit 6: Using Probability to Make Decisions</strong></th>
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<td><strong>77–78</strong></td>
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</table>
Making Predictions Based on Empirical Data

- PLATO Objective: Develop a probability distribution for a random variable defined for a sample space in which probabilities are assigned empirically and find the expected value.
- Common Core State Standard: S.MD.4. (+) Develop a probability distribution for a random variable defined for a sample space in which probabilities are assigned empirically; find the expected value.

Lesson

Ins and Outs of Expected Value

- PLATO Objective: Weigh the possible outcomes of a decision by assigning probabilities to payoff values and finding expected values.
- Common Core State Standard: S.MD.5. (+) Weigh the possible outcomes of a decision by assigning probabilities to payoff values and finding expected values.
  - Find the expected payoff for a game of chance. For example, find the expected winnings from a state lottery ticket or a game at a fast food restaurant.
  - Evaluate and compare strategies on the basis of expected values. For example, compare a high-deductible versus a low-deductible automobile insurance policy using various, but reasonable, chances of having a minor or a major accident.

Lesson

Fair Decisions with Random Variables

- PLATO Objective: Solve for probabilities in complex situations that go beyond counting rules and use these probabilities to make fair decisions.
- Common Core State Standard: S.MD.6. (+) Use probabilities to make fair decisions (e.g., drawing by lots, using a random number generator). [Include complex situations beyond counting rules.]

Lesson

Complex Decisions Using Probability

- PLATO Objective: Analyze decisions and strategies in complex situations, using probability concepts that go beyond counting rules.
- Common Core State Standard: S.MD.7. (+) Analyze decisions and strategies using probability concepts (e.g., product testing, medical testing, pulling a hockey goalie at the end of a game).

Lesson

Unit Activity—Unit 6

Unit Activity

Posttest—Unit 6

Assessment
Science

Biology, Semester A, Version 2.0 (replaced by Version 3.0)

Unit 1: Introduction to Biology
Students will begin by exploring the basics of biology, limitations on theories, and societal issues.

Unit 2: The Energy and Chemistry of Life
This unit covers concepts related to the energy and chemistry of life, including cellular respiration, photosynthesis, enzymes, and biochemistry.

Unit 3: Cell Structure and Specialization
This unit focuses on concepts related to cell structure and specialization, including cell structure, division, and diseases.

Unit 4: Genetics and Evolution
This unit focuses on concepts related to genetics and evolution, including DNA, Mendel, genes, and amino acids.

Biology, Semester B, Version 2.0 (replaced by Version 3.0)

Unit 1: Ecology
This unit focuses on concepts related to ecology, including the biosphere, biomes, human interactions with the environment, ecosystems, and population ecology.

Unit 2: The Diversity of Life
This unit focuses on concepts related to the diversity of life, including classification, plants, vertebrates, and invertebrates.

Unit 3: Plants and Animals
This unit focuses on the biology of plants and animals (and their parts) including the leaf, stems, roots, sponges, mollusks, birds, the liver, and muscle contraction.

Biology – Semester A, Version 3.0 – also available in vCourses

Unit 1: Nature of Life
Learners begin the course applying the scientific method to scientific problems and laboratory investigations. Learners prepare for the semester’s labs by learning how to safely use equipment such as Bunsen burners, graduated cylinders, microscopes, and balances, as well as being able to communicate result data through charts and graphs. Building a base of chemistry concepts and exploring water, acids bases, buffers, and carbon continue preparing learners for the course.

Unit 2: The Chemistry of the Cell
This unit includes a lab on Enzyme Catalysis. Learners explore polymers and describe how carbohydrates, lipids, proteins, and nucleic acids function in natural systems. Learners will recognize that energy transformation through metabolic pathways is a core process which defines life. Learners explain the structure, function, and denaturation of enzymes, while also discussing the “induced fit” hypothesis in enzyme action. Prokaryotic and eukaryotic cells are compared.

Unit 3: Cell Structures and Functions
Learners begin with an overview of cell structures and functions, and then explain how materials are transported in and out of cells. Learners discuss in detail how cells use organic compounds as their energy source and how photosynthesis allows plants to convert light energy into chemical energy. Learners will explore the cell cycle and how it is regulated, and relate the loss of this regulation to the onset of cancer.

Unit 4: Descriptive Genetics
Meiosis and Genetics of Organisms are covered in this unit. Learners explore sexual reproduction and how it contributes to genetic diversity, as well as explain the process and role of meiosis in sexual life cycles. Solving problems involving basic Mendelian genetics is covered in this unit. Learners explore gene-based and chromosomal inheritance and solve problems related to both.

Unit 5: Molecular Genetics

Learners explore DNA and genes. Common environmental factors that cause mutations of cells, as well as the role of gene regulation upon cellular differentiation are covered. Learners perform a gel electrophoresis and analyze band structures while learning about gene splicing. Learners explore common methods of genetic engineering and some of their applications, including discussing both useful and potentially harmful aspects of genetic engineering technology.

Unit 6: Evolution

Learners close the semester with a lab on population genetics and evolution. Learners compare and contrast the evolutionary theories of Darwin and Lamack. Gene frequencies are explored, and learners determine frequency of a dominant and recessive allele observed in a population. Learners describe factors in microevolution and adaptive evolution. Speciation, macroevolution, and phylogeny concepts are explored, and learners outline the history of evolution of life on Earth.

Biology –Semester B, Version 3.0 – also available in vCourses

Unit 1: Diversity of Life, Part 1

Learners explain our modern system of biological taxonomy and how it is hierarchical in nature. Learners explore phylogeny and evolution, relating the branching pattern of phylogenetic trees to the taxonomic hierarchy and a cladistic analysis of a species evolution to branch points on its phylogenetic tree. Learners demonstrate their knowledge of the biology, diversity, evolution and importance of prokaryotes, the protozoa, algae, and fungi.

Unit 2: Diversity of Life, Part 2

Building on Unit 1, learners continue to demonstrate knowledge of the biology, diversity, evolution, and importance of a variety of living things. Learners show how bryophytes are partially but not completely adapted to life on land and discuss the importance of vascular plants to life. Exploring both lower invertebrate and higher invertebrate animals, as well as chordates, learners discuss reasons for the overwhelming dominance of the arthropods on Earth.

Unit 3: Plant Structure and Function

Exploring plant structure and function in this unit, learners identify and describe functions of angiosperms, leaves, stems, and roots. Completing the first lab of the semester – Transpiration – learners describe how materials necessary for plant metabolism are absorbed and transported by plants. Sexual and asexual methods of plant reproduction are explored, and learners describe hormonal and other behavioral responses of plants to their environment.

Unit 4: Animal Structure and Function, Part 1

Learners describe how an animal body is organized as represented by a mammal. Exploring the digestive system, circulatory and respiratory system, learners identify organs of each system while explaining the role of symbiotic bacteria, blood pressure, and velocity. A lab on physiology of the circulatory system is completed in this unit. Learners examine the immune system, explaining how long-term immunity is established and maintained, as well as examine the excretory system, explaining how metabolic wastes are removed by the urinary system.

Unit 5: Animal Structure and Function, Part 2

In the second unit focused on Animal Structure and Function, learners explore the endocrine, nervous, and skeletal and muscular systems. Animal reproduction is covered, and learners will explain how hormonal controls in the mother initiate and complete the birth process. Learners describe the mechanism that a sperm uses to enter an egg, and describe the changes in the zygote as it undergoes embryological development.

Unit 6: Ecology
In the final unit of the course, learners explore ecosystems. Learners describe how energy flows through an ecosystem and describe the major biogeochemical cycles. As learners explore balance in nature, they discuss factors that determine community structure in ecosystems. Ecological Succession and its impact on environments are discussed, and learners discuss the major global ecological issues facing humanity today. Dissolved Oxygen and Aquatic Primary Production is the first lab of the unit. Animal behavior and how patterns affect adaptability in nature are explored in the second lab of the unit.

Advanced Biology – AP* Edition, Semester A – also available in vCourses

Unit 1: Nature of Life
Learners begin the course applying the scientific method to scientific problems and laboratory investigations. Learners prepare for the semester’s labs by learning how to safely use equipment such as Bunsen burners, graduated cylinders, microscopes, and balances, as well as being able to communicate result data through charts and graphs. Building a base of chemistry concepts and exploring water, acids bases, buffers, and carbon continue preparing learners for the course. Learners explore the six basic functional groups used to build the molecules of life.

Unit 2: The Chemistry of the Cell
This unit includes a lab on Enzyme Catalysis. Learners explore the synthesis and hydrolysis of polymers and describe how carbohydrates, lipids, proteins, and nucleic acids function in natural systems. Learners will recognize that energy transformation through metabolic pathways is a core process which defines life. Learners explain the structure, function, and denaturation of enzymes, while also discussing the “induced fit” hypothesis in enzyme action. Prokaryotic and eukaryotic cells are compared.

Unit 3: Cell Structures and Functions
Learners complete four labs in this unit – Diffusion and Osmosis, Cell Respiration, Plant Pigments and Photosynthesis, and Mitosis. Learners begin with an overview of cell structures and functions, and then explain how materials are transported in and out of cells. Learners discuss in detail how cells use organic compounds as their energy source and how photosynthesis allows plants to convert light energy into chemical energy. Learners will explore the cell cycle and how it is regulated, and relate the loss of this regulation to the onset of cancer.

Unit 4: Descriptive Genetics
Learners complete two labs in this unit – Meiosis and Genetics of Organisms. Learners explore sexual reproduction and how it contributes to genetic diversity, as well as explain the process and role of meiosis in sexual life cycles. Solving problems involving basic Mendelian genetics is covered in this unit. Learners explore gene-based and chromosomal inheritance and solve problems related to both.

Unit 5: Molecular Genetics
Completing one lab in this unit – Molecular Biology – learners explore DNA and genes. Common environmental factors that cause mutations of cells, as well as the role of gene regulation upon cellular differentiation are covered. Learners perform a gel electrophoresis and analyze band structures while learning about gene splicing. Learners explore common methods of genetic engineering and some of their applications, including discussing both useful and potentially harmful aspects of genetic engineering technology.

Unit 6: Evolution
Learners close the semester with a lab on population genetics and evolution. Learners compare and contrast the evolutionary theories of Darwin and Lamack. Gene frequencies are explored, and learners determine frequency of a dominant and recessive allele observed in a population. Learners describe factors in microevolution and adaptive evolution. Speciation, macroevolution, and phylogeny concepts are explored, and learners outline the history of evolution of life on Earth.

Advanced Biology – AP* Edition, Semester B – also available in vCourses

Unit 1: Diversity of Life, Part 1
Learners explain our modern system of biological taxonomy and how it is hierarchical in nature. Learners explore phylogeny and evolution, relating the branching pattern of phylogenetic trees to the taxonomic hierarchy and a cladistic analysis of a species evolution to branch points on its phylogenetic tree. Learners demonstrate their knowledge of the biology, diversity, evolution and importance of prokaryotes, the protozoa, algae, and fungi.

**Unit 2: Diversity of Life, Part 2**

Building on Unit 1, learners continue to demonstrate knowledge of the biology, diversity, evolution, and importance of a variety of living things. Learners show how bryophytes are partially but not completely adapted to life on land and discuss the importance of vascular plants to life. Exploring both lower invertebrate and higher invertebrate animals, as well as chordates, learners discuss reasons for the overwhelming dominance of the arthropods on Earth.

**Unit 3: Plant Structure and Function**

Exploring plant structure and function in this unit, learners identify and describe functions of angiosperms, leaves, stems, and roots. As they focus on growth in stems, learners use a cross section through an herbaceous dicot stem to identify tissue and relate it to secondary growth. Completing the first lab of the semester – Transpiration – learners describe how materials necessary for plan metabolism are absorbed and transported by plants. Sexual and asexual methods of plant reproduction are explored, and learners describe hormonal and other behavioral responses of plants to their environment.

**Unit 4: Animal Structure and Function, Part 1**

Learners describe how an animal body is organized as represented by a mammal. Exploring the digestive system, circulatory and respiratory system, learners identify organs of each system while explaining the role of symbiotic bacteria, blood pressure, and velocity. A lab on physiology of the circulatory system is completed in this unit. Learners examine the immune system, explaining how long-term immunity is established and maintained, as well as examine the excretory system, explaining how metabolic wastes are removed by the urinary system.

**Unit 5: Animal Structure and Function, Part 2**

In the second unit focused on Animal Structure and Function, learners explore the endocrine, nervous, and skeletal and muscular systems. Animal reproduction is covered, and learners will explain how hormonal controls in the mother initiate and complete the birth process. Learners describe the stages occurring during animal development, and then explore the variation in development, describing the controls occurring during animal development and how differentiation is triggered.

**Unit 6: Ecology**

In the final unit of the course, learners explore ecosystems. Learners describe how energy flows through an ecosystem, measure productivity and efficiency of an ecosystem, and describe the major biogeochemical cycles of an ecosystem. As learners explore balance in nature, they discuss factors that determine community structure in ecosystems. Ecological Succession and its impact on environments are discussed, and learners discuss the major global ecological issues facing humanity today. Dissolved Oxygen and Aquatic Primary Production is the first lab of the unit. Animal behavior and how patterns affect adaptability in nature are explored in the second lab of the unit.

**Chemistry – Semester A – revised Winter 2010 — also available in vCourses**

**Unit 1: Matter and Atomic Structure**

This unit provides the conceptual understanding of what matter is and the structure of the atom. The unit begins by identifying the different types of matter and the properties of an element, compound, homogeneous mixture and heterogeneous mixture. It then explores how to identify key terms that indicate a physical or chemical property and change. The unit then follows the contributions made by Democritus, Dalton, Thompson, Rutherford, and Bohr and how their work led to the modern atomic theory. This information also includes the parts of the atom (protons, neutrons, and electrons) and their locations, charges, and masses. The unit concludes by describing the concept of isotopes and how to calculate average atomic mass from isotopic information.
Unit 2: The Periodic table
This unit provides the basic understanding and application of the periodic table. It begins with an explanation that the modern periodic table is organized by increasing atomic number and how it can be used to either identify an element as a metal, nonmetal, or metalloid or predict properties of an element based on its location on the periodic table. It then goes on to explain how to write electron configurations and use the periodic table to relate an element’s position to its configuration. This unit also explores how the periodic table can be used to identify and analyze the periodic trends in atomic and ionic size, ionization energy, and electronegativity. It also describes different types of electromagnetic radiation and how to calculate wavelength, frequency, and energy of light. It then concludes by explaining spectral lines for elements.

Unit 3: Bonding
This unit introduces the concept of bonding between atoms. It begins by describing the octet rule for atoms and how it results in ionic, covalent, or metallic bonds. It then explains the rules for naming compounds and drawing Lewis dot structures for them. The unit explores the concept of electronegativity and uses it to determine if a bond formed between two atoms will be ionic, polar covalent, or nonpolar covalent. The unit also describes how to predict the three-dimensional bond shape of a molecule using the rules for VSEPR and determine if a molecule is polar or nonpolar based on the symmetry of its shape. It then concludes with understanding various intermolecular forces, such as London dispersion forces (LDF), dipole-dipole forces, and hydrogen bonding, and how these forces affect the melting and boiling point of a substance.

Unit 4: The Mole Concept
This unit introduces the concept of mole. It applies the mole concept to calculate molar mass. It then goes on to explain how to calculate particles, mass, volume, and moles from a set of data as well as how to calculate percent composition. This unit concludes with how to determining the empirical formulas for a compound if its percent compositions or mass is given and how to determining its molecular formula if the molar mass and empirical formula is given.

Unit 5: Chemical Reactions
This unit goes deeper into the concept of chemical reactions. It begins by explaining how to balance chemical reactions, identify different types of chemical reactions, and predict products for simple chemical reactions. It then goes on to describe how to determine mole ratios from balanced chemical equations, perform mole-to-mole stoichiometry problems, and calculate stoichiometry problems involving mass and volume. It then concludes by describing how to calculate percent yield for chemical reactions.

Unit 6: Kinetic Molecular Theory and Gas Laws
In this unit, learners learn about the kinetic molecular theory and gas laws. This unit begins by describing the different forms of energy and the role of energy in chemical and physical processes, and by differentiating between endothermic and exothermic processes. It then covers the concept of kinetic theory and the comparison of the three states of matter based on this theory. This unit also introduces the heating curve and heat changes that occur during phase changes. Finally it develops the basic gas laws and their application: Boyle's law, Charles' law, Gay-Lussac's law, combined gas law, ideal gas law, Dalton's law, and Graham's law.

Chemistry – Semester B – revised Winter 2010 – also available in vCourses

Unit 1: Solutions
This unit explores the dissolving process, different types of solutions and calculations dealing with solutions. Learners will investigate colligative properties dealing with solutions. Real-world examples are used throughout this unit to provide context for student learning.

Unit 2: Reaction Rates
In this unit, learners will explore deeper into the concept of chemical reactions. Previous units have introduced the topic, but learners will learn in this unit how to interpret reaction rates and identify factors
that will change these rates. This unit also discusses what activation energy is and how it is related to chemical reactions, chemical equilibrium, Le’Chatelier’s principle and rate laws.

**Unit 3: Acids and Bases**

In this unit, learners will learn the properties of acids and bases and be able to identify and differentiate between the three types of acids and bases. Learners will be introduced to the pH concept and will be able to calculate pH for solutions. Strong and weak acids/bases will be introduced, and an analysis of Ka and Kb will be done. Finally, learners will understand that acids and bases react in neutralization reactions and a titration is a type of experiment used to determine unknown concentrations.

**Unit 4: Energy**

This unit introduces the idea of entropy as a way to predict directions of reactions. Learners will calculate energy changes in chemical reactions through the use of thermochemical equations and then through calorimetry. The unit will use energy diagrams for reactions as a way of noting what each part represents and how to calculate important values such as activation energy. Learners will also learn how to calculate changes in enthalpy through Hess’s law and with Gibbs free energy equation. By the end of the unit, learners will be able to predict the spontaneity of reactions based on Gibbs free energy equation.

**Unit 5: Oxidation-Reduction Reactions**

In this unit, learners will learn how to identify oxidation and reduction reactions and how to balance them correctly. They will learn how these reactions are used in the real world in the form of voltaic and electrochemical cells. Learners will be introduced to calculations involving redox reactions and standard reduction potentials and finally how cell potentials are related to Gibbs free energy and the equilibrium constant.

**Unit 6: Nuclear Chemistry and Biochemistry**

This unit reviews atomic structure, atomic mass and number and isotopes so that learners can understand the concepts of nuclear binding energy and the strong and weak nuclear forces. The unit then continues with an explanation of the three different types of nuclear decay and the products of this decay. Fusion and fission are then compared and the risks and benefits of nuclear processes are investigated. The unit then shifts towards organic chemistry with a lesson on hydrocarbons and the IUPAC organic molecule nomenclature. That lesson is followed by one on functional groups. The unit concludes with an examination of biologically important molecules.
particles, mass, volume, and composition of a sample. Learners will study conversions of moles, particles, mass, and volume for a given sample of a compound. Unit four includes a lab in which learners determine molar mass by freezing point depression.

Unit 5: Chemical Reactions
This unit includes three labs: The determination of the formula of a compound, Separation and qualitative analysis of cations and anions, and Determination of mass and mole relationship in a chemical reaction. This unit discusses balancing, types, and products of chemical reactions. Learners will learn about chemical equations and stoichiometric relationships that can be determined from a balanced chemical equation. Learners will also calculate percent yield in this unit.

Unit 6: Kinetic Molecular Theory and Gas Laws
This unit addresses the different types of energy involved in chemical reactions. An understanding of types of energy is necessary in order to differentiate between endothermic and exothermic reactions and how states of matter are determined. The unit will explain heating and cooling curves as they relate to phase changes. The unit concludes with information on gas law calculations, the ideal gas law and Dalton’s and Graham’s law. Learners complete two labs in Unit six: Determination of the molar volume of a gas; and Determination of molar mass by vapor density.

Advanced Chemistry – AP* Edition, Semester B – also available in vCourses

Unit 1: Solutions
This unit explores the dissolving process, different types of solutions, and calculations dealing with solutions. Learners will investigate colligative properties dealing with solutions. Real-world examples are used throughout this unit to provide context for student learning.

Unit 2: Reaction Rates
Learners complete one lab: Determination of the rate of a reaction and its order. In this unit, learners will explore the concept of chemical reactions more deeply. Previous units have introduced the topic, but learners will learn in this unit how to interpret reaction rates and identify factors that will change these rates. This unit also discusses activation energy, reaction rates, integrated rate equations reaction mechanisms, and factors that affect rate constants.

Unit 3: Chemical Equilibrium
Learners complete a lab on the colorimetric analysis and determination of the equilibrium constant for a chemical reaction. Learners describe chemical equilibrium and write and evaluate equilibrium constant expressions. Learners convert between Kc and Kp. For a reaction not at equilibrium, learners calculate the reaction quotient, Q, and identify which way the reaction will go to reach equilibrium. Learners identify Le Chatelier’s principle and explain how stressors affect chemical equilibrium. Ksp problems are performed, and learners predict which way equilibrium will shift with the addition of more salt or ions.

Unit 4: Acids and Bases
Learners complete two labs in this unit: Determination of concentration by acid-base titration, including a weak acid or weak base; and Standardization of a solution using a primary standard. In this unit, learners will learn the properties of acids and bases and be able to identify and differentiate between the three types of acids and bases. Learners will be introduced to the pH concept and will be able to calculate pH for solutions. Strong and weak acids/bases will be introduced and an analysis of Ka and Kb will be done. Lastly, learners will understand that acids and bases react in neutralization reactions and a titration is a type of experiment used to determine unknown concentrations.

Unit 5: Energy
In this unit, learners complete a lab on the Determination of enthalpy change associated with a reaction. This unit introduces the idea of entropy as a way to predict directions of reactions. Learners will calculate energy changes in chemical reactions through the use of thermochemical equations and then through calorimetry. The unit will use energy diagrams for reactions as a way of noting what each part represents and how to calculate important values such as activation energy. Learners will also learn how to calculate changes in enthalpy through Hess’s law and with Gibbs free energy equation. By the end of
the unit, learners will be able to predict the spontaneity of reactions based on Gibbs free energy equation.

Unit 6: Oxidation-Reduction Reactions

In unit six, learners complete three labs: Determination of concentration by oxidation-reduction titration; Measurements using electrochemical cells and electroplating; and Synthesis of a coordination compound and its chemical analysis. In this unit, learners will learn how to identify oxidation and reduction reactions and how to balance them correctly. They will learn how these reactions are used in the real world in the form of voltaic and electrochemical cells. Learners will be introduced to calculations involving redox reactions and standard reduction potentials and finally how cell potentials are related to Gibbs free energy and the equilibrium constant.

Unit 7: Nuclear Chemistry and Biochemistry

This unit reviews atomic structure, atomic mass and number, and isotopes so that nuclear binding energy and the strong and weak nuclear forces can be explained. It then continues with an explanation of the three different types of nuclear decay and the products of this decay. Fusion and fission are then compared, and the risks and benefits of nuclear processes are investigated. The unit then shifts toward organic chemistry and a lesson on biologically important molecules. IUPAC organic molecule nomenclature is then explained. The unit concludes with a lesson on functional groups.

Life Science, Semester A  – also available in vCourses

Unit 1: Scientific Inquiry
Learners explore a variety of components of investigations to ensure their understanding of the scientific method.

Unit 2: Cells: The Basis for Life
Learners explore the definition of life and the chemistry of cells while comparing and contrasting cell types.

Unit 3: Structure and Function in Living Organisms
Learners explore the levels of organization within an organism and the structure and function of an organism’s components.

Unit 4: Classification and Diversity of Life
Learners explore taxonomy of living organisms and the diversity within each classification.

Life Science, Semester B  – also available in vCourses

Unit 1: Genetics and Heredity
Learners explore the role of DNA in respect to genes and traits, as well as heredity, genetic variation, and biotechnology.

Unit 2: Organisms and Their Environment
Learners explore the flow of energy throughout their environment while observing the roles of biotic and abiotic factors.

Unit 3: Human Health and Reproduction
Learners explore the factors that impact human health and a human’s ability to reproduce.

Unit 4: Change Over Time
Learners explore changes that have occurred in human history, observing the eras created by science to identify periods of time.

Physical Science, Semester A  – also available in vCourses

Unit 1: Properties and Structures of Matter
Students are provided with opportunities to explore concepts related to the properties and structures of matter. Included are tutorials and applications where students can learn about and practice measuring matter, volume, density, force, atoms, elements, and compounds. Additionally, students will focus on identifying matter, states of matter, and the periodic table.

Unit 2: Chemistry Fundamentals
In this unit, students will focus on chemistry fundamentals such as bonding and types of compounds, mixtures and solutions, chemical reactions, the scientific method, and controls and variables.

Physical Science, Semester B — also available in vCourses
Unit 1: Energy and Its Applications
In this unit, students will focus on energy and its applications, including the properties and sources of energy, heat, electricity, circuits, power consumption, magnetism, electromagnetism, and the properties and behavior of sound and light.

Unit 2: Forces and Motion
In this unit, students will focus on concepts related to forces and motion including frame of reference, speed, and slope of a line, linear vs. non-linear data, Newton’s Laws, types of forces, balanced and unbalanced forces, work and simple machines.

Physics, Semester A — also available in vCourses
Unit 1: Kinematics I
This unit provides an introduction to the study of physics. It begins with a timeline of the major discoveries and inventions in physics. The unit then explores real-world events and looks deeper into the study of motion. Next, it explores the mathematical concepts necessary for the study of physics and discusses how to perform basic mathematical operations on vector and scalar quantities using both scientific and standard notation. The unit also covers the kinematic terms and formulas used throughout physics and explains how to apply the knowledge of the relationships between time, velocity, displacement, and acceleration in one dimension. The unit concludes by discussing how to recognize relationships in data and by investigating the motion of objects along a straight-line path, relating displacement, velocity, and acceleration.

Unit 2: Kinematics 2
In this unit, students analyze motion in two dimensions, starting with vector analysis, and then apply their knowledge of kinematics to problems in two dimensions. A major emphasis in this unit is the independence of perpendicular components of motion. This unit begins with vector analysis and the skills of adding and subtracting vector quantities as well as resolving a vector into its components. It explores relative velocity and analyzes motion in two dimensions in problems not involving gravity. It then describes the motion of projectiles launched horizontally in a uniform gravitational field, as well as those launched at an angle above the horizon when friction is negligible.

Unit 3: Dynamics
This unit introduces the concept of dynamics and investigates motion with respect to the forces that cause it. It begins by describing the fundamental terms and concepts related to the study of dynamics: force, mass, inertia, weight, gravity, friction, and equilibrium. The unit proceeds to explain and apply Newton’s first, second, and third laws of motion. It then describes the universal nature of gravity and explores the relationship between mass and weight. The unit concludes with dynamics used to analyze two-dimensional situations.

Unit 4: Energy and Momentum
This unit introduces the concepts of energy and momentum. It begins by explaining how work is understood in terms of physics and how work relates to force and displacement. It proceeds by investigating kinetic energy, potential energy, and the transformation of one to the other. The unit analyzes the relationship between work and energy and the law of conservation of energy. It explains power, efficiency, and the concept of mechanical advantage for simple machines. The second half of
the unit explores momentum, change in momentum (impulse), and conservation of momentum through examples, investigations, and problems. This unit concludes with how to solve problems involving elastic and inelastic collisions, in both one and two dimensions.

Unit 5: Periodic Motion
This unit serves as an introduction to periodic motion and explores common cases of simple harmonic motion, including springs, pendulums, and circular motion. The unit begins by defining and describing periodic motion and applying that knowledge to a mass on a spring. It then analyzes the motion of a pendulum and explores simulations in which students will determine the factors that affect the period of a pendulum. The unit proceeds to describe the nature of circular motion and the centripetal force associate with it. The unit concludes by connecting circular motion and the law of universal gravitation, exploring the orbital process and solving problems related to period and velocity of bodies in circular orbit.

Unit 6: Thermodynamics
In this unit, students are introduced to the fundamentals of thermodynamics, including the first and second laws of thermodynamics, heat, temperature, thermal equilibrium, and entropy. This unit begins by describing how the macroscopic properties of a thermodynamic system, especially temperature, are related to the molecular level of matter and discusses thermal energy as the sum of all the microscopic potential and kinetic energies. It then defines and discusses thermal equilibrium, specific heat, and latent heat, and focuses on how to use equations for specific heat, latent heat, temperature change and energy (gain/loss) to solve problems. Next, the unit explains the first law of thermodynamics and investigates the relationships among heat, work, and internal energy. It explores the concept of entropy and the second law of thermodynamics. It also examines heat engines and discusses how to determine their efficiency. The unit concludes with a global application of thermodynamic principles in the study of global warming.

Physics, Semester B – also available in vCourses
Unit 1: Waves
This unit serves as an introduction to waves. It begins by defining waves, and then classifying them as mechanical or electromagnetic waves, and as transverse or longitudinal waves. The unit then explores waves in terms of their fundamental characteristics of velocity, wavelength, frequency and amplitude. Next, it explains the use of the universal wave equation to solve problems involving speed, frequency, and wavelength. The unit also describes the reflection and interference of sound and light waves, the reflection and diffraction of light waves, and the effects of resonance and Doppler shift, focusing on real-world instances and applications. The unit concludes by describing how sound waves are produced, transmitted, and detected.

Unit 2: Optics
This unit provides an overview of basic optics, including the electromagnetic spectrum and the properties of light, mirrors, and lenses. The unit begins by describing the electromagnetic spectrum and the concepts of reflection and refraction, relating them to light. It explores Snell's law, indices of refraction, and the quantitative analysis of refraction at a medium boundary. This unit also introduces analysis of ray diagrams for concave and convex lenses, as well as flat, concave, and convex mirrors. The unit concludes with an explanation of the polarization of light.

Unit 3: Electrostatics
This unit introduces the concept of electrostatics, both qualitatively and quantitatively. The unit begins by describing the types of charges, the attraction and repulsion of charges, charge polarization, and induced charges. It then proceeds to explain Coulomb's law and its application to analyze electric forces. The unit then illustrates the electric field lines for one point charge, two point charges, and parallel plates, and explains how to calculate the electric field of a single point charge and of two point charges. The unit concludes by explaining how to calculate electric potential, electric potential energy, and change in electric potential energy.

Unit 4: Circuitry
This unit introduces the basic concepts of electric circuits, which include applications of electrical energy in our everyday lives. It begins by explaining what conventional electric current is and how it is caused by a potential difference (voltage). It introduces and compares alternating current (AC) and direct current (DC). The unit then analyzes the physical characteristics that relate to electrical resistance and relates resistance, current, and voltage through Ohm’s law. The unit goes on to analyze circuit diagrams and describe how to measure voltage and current in a circuit. It then explores and analyzes series, parallel, and combination circuits. The unit concludes with the relationship between electric power, electric potential difference, current, and resistance.

Unit 5: Magnetism

This unit serves as an introduction to magnetism. It begins with the basic properties of magnets, including their interactions, field lines, and relationship to electricity. It then introduces the right-hand rules, enabling students to determine the direction of field lines and the magnetic forces on charges and current-carrying wires. The unit then describes magnetic induction and relates it to a change in magnetic flux. The unit concludes by defining Ampère’s law and Faraday’s law and explaining how these laws apply to electrical motors and generators.

Unit 6: Quantum and Nuclear Physics

This unit introduces students to the fundamentals of the quantum model of light and the atom. It begins by describing the dual nature of light in that it behaves like both a particle and a wave. The unit then explains the strong nuclear force and how to calculate mass-energy equivalence by comparing it to the binding energy of the nucleus. Next, the unit explains the quantum model of the atom with its subatomic particles. It then explores the concept of naturally occurring radioactive isotopes and the ways that they decay. The unit concludes by describing nuclear fission and fusion.

Integrated Physics and Chemistry, Semester A – also available in vCourses

Unit 1: Physics and Motion

This unit provides an introduction to the study of physics. It begins with a timeline of the major discoveries and inventions in physics. The unit then explores real-world events and looks deeper into the study of motion. Next, it explores the mathematical concepts necessary for the study of physics and discusses how to perform basic mathematical operations on vector and scalar quantities using both scientific and standard notation. The unit also covers the kinematic terms and formulas used throughout physics and explains how to apply the knowledge of the relationships between time, velocity, displacement, and acceleration in one dimension. The unit concludes by discussing how to recognize relationships in data and by investigating the motion of objects along a straight-line path, relating displacement, velocity, and acceleration.

Unit 2: Newton’s Law

This unit introduces the concept of dynamics and investigates motion with respect to the forces that cause it. It begins by describing the fundamental terms and concepts related to the study of dynamics: force, mass, inertia, weight, gravity, friction, and equilibrium. The unit proceeds to explain and apply Newton’s first, second, and third laws of motion. The unit concludes by describing the universal nature of gravity and exploring the relationship between mass and weight.

Unit 3: Energy and Momentum

This unit introduces the concepts of energy and momentum. It begins by explaining how work is understood in terms of physics and how work relates to force and displacement. It proceeds by investigating kinetic energy, potential energy, and the transformation of one to the other. The unit analyzes the relationship between work and energy and the law of conservation of energy. The unit also explores periodic motion, such as motion of an elastic spring, a pendulum, and circular motion in terms of potential and kinetic energy. This unit concludes by explaining the concept of momentum and investigating the conservation of momentum through examples, investigations, and problems.

Unit 4: Waves

This unit serves as an introduction to waves. It begins by defining waves and then classifying them as mechanical or electromagnetic waves, as well as transverse or longitudinal waves. The unit then explores...
waves in terms of their fundamental characteristics of velocity, wavelength, frequency, and amplitude. Next, it explains the use of the universal wave equation to solve problems involving speed, frequency, and wavelength. The unit also describes how sound waves are transmitted, detected, and perceived. The unit then explains the concept of electromagnetic spectrum. It covers how to compare the frequencies and energies of various electromagnetic waves, including visible light. The unit concludes by describing reflection and refraction and relating them to light.

Unit 5: Electric and Magnetic Forces
This unit introduces the fundamentals of electric and magnetic forces. The unit begins by describing the types of charges, the attraction and repulsion of charges, charge polarization, and induced charges. It then proceeds to explain Coulomb’s law and its application to analyze electric forces. It then moves on to the basic properties of magnets, including their interactions, field lines, and relationship to electricity. It covers the righthand rules, enabling students to determine the direction of field lines and the magnetic forces on charges and current-carrying wires. The unit then concludes with magnetic induction and relates it to a change in magnetic flux.

Unit 6: Electric Circuits
This unit introduces the basic concepts of electric circuits, which include applications of electrical energy in our everyday lives. It begins by explaining what conventional electric current is and how it is caused by a potential difference (voltage). It introduces and compares alternating current (AC) and direct current (DC). The unit then analyzes the physical characteristics that relate to electrical resistance and relates resistance, current, and voltage through Ohm’s law. The unit goes on to analyze circuit diagrams and describe how to measure voltage and current in a circuit. The unit concludes with analyzing series, parallel, and combination circuits.
In this unit, students learn about the kinetic molecular theory. This unit begins by describing the different forms of energy and the role of energy in chemical and physical processes, and by differentiating between endothermic and exothermic processes. It then covers the concept of kinetic theory and the comparison of the three states of matter based on this theory. This unit concludes with the heating curve and heat changes that occur during phase changes.

Unit 5: Solutions and Reaction Rates
This unit explores the dissolving process, different types of solutions and calculations dealing with solutions. Students will investigate colligative properties dealing with solutions. Real-world examples are used throughout this unit to provide context for student learning. In this unit, students will also explore the concept of chemical reactions more deeply. Students will learn how to interpret reaction rates and identify factors that will change these rates. This unit also discusses what activation energy is and how it is related to chemical reactions and reaction rates.

Unit 6: Thermal and Nuclear Energy
In this unit, students are introduced to basic concepts of both thermal and nuclear energy. The unit begins by describing how the macroscopic properties of a thermodynamic system, especially temperature, are related to the molecular level of matter. It goes on to discuss thermal energy as the sum of all the microscopic potential and kinetic energies. It then defines and discusses specific heat and latent heat and focuses on how to use equations for specific heat, latent heat, temperature change, and energy (gain/loss) to solve problems. Next, the unit explains the global application of thermodynamic principles, especially in the study of global warming. This unit also reviews atomic structure, atomic mass and number, and isotopes so that students can understand the concepts of nuclear binding energy and the strong and weak nuclear forces. It then continues with an explanation of the three different types of nuclear decay and the products of this decay. The unit concludes with a comparison of fusion and fission, and the risks and benefits of nuclear processes are investigated.

Earth and Space Science, Semester A — also available in vCourses

Unit 1: Looking at Earth’s Features
This unit presents core concepts that students will draw from throughout the rest of the course. The unit begins by distinguishing the layers of the earth, both above and below the crust, by both composition and characteristics. It covers how these layers interact with each other to varying degrees. The unit then introduces various types of landforms and how they are created and destroyed by earth processes. Information about maps is also presented, including types of maps, how to read each type of map, and which maps might best be used in certain situations.

Unit 2: The Energetic Earth
This unit introduces plate tectonic theory, focusing on how Earth’s moving plates play a role in the creation of landforms. It covers how earthquakes occur, how they are measured, and how preparation can prevent damage and injuries. The unit also discusses types of volcanoes, the forms of lava they produce, and how the type of eruption depends on the gases and magma within a volcano.

Unit 3: Rocks and Soil
This unit defines minerals and rocks, describes the types of minerals commonly found on Earth, and explains how to distinguish between types of rocks and minerals based on their characteristics. It also explains how one type of rock can change into another over time. The unit discusses the role that erosion and weathering play in creating different types of soil and how these actions affect soil fertility. The different layers of soil and their formation are also covered in this unit.

Earth and Space Science, Semester B — also available in vCourses

Unit 1: Water in Our World
This unit discusses how the water cycle works and describes the movement of water, including wave action and the role of currents and tides in the ocean. This unit examines the layers of the ocean, zones
of marine life, the features of the ocean floor, and how the depth of the ocean affects its temperature and salinity. Finally, this unit addresses the importance of fresh water for life on Earth, where fresh water is found, and what forms it takes. This discussion includes the impact of pollution and conservation on Earth’s water resources.

Unit 2: Weather and Atmospheric Processes
This unit examines the layers of the atmosphere and the makeup and attributes of each layer. It discusses wind and how it is produced, based on the rotation of Earth and heat from the sun. The effects of pollution on the atmosphere are also covered. The unit addresses how weather is formed, different types of weather, and how certain conditions can lead to storms and other weather events. Weather maps and their symbols are covered. The unit wraps up by discussing the differences between weather and climate zones. Examples of climates zones and biomes found with these zones are included. The topic of global warming and its possible effects on Earth are also addressed.

Unit 3: Earth, Space, and the Universe
This unit discusses the inner and outer planets, including their makeup, physical attributes, and orbits. Current and past theories about the place our solar system has in the universe are presented. The unit also covers ways the sun, moon, and Earth interact, such as eclipses and the pull of tides. The layers and physical qualities of the sun and moon are presented. The change of seasons is described in terms of Earth’s tilt and orbit around the sun. This unit also examines the life cycle of a star, how a star’s size and distance from Earth is determined, and the tools used to study stars. The locations of stars in the sky and how they appear to move nightly and by season is covered. The unit also describes the size, shape, and movement of galaxies.
Social Studies

Basic American History 1, Semester A

Unit 1: A Meeting of Cultures: Europe and America
Early People Lay Foundation of American Culture (before 1492)
Prehistoric Peoples Migrate Across the Earth; The First Americans Establish Diverse Cultures; Cultures Outside the Americas
Spain Leads in Exploring and Colonizing New World (1492–1650)
The Search for Trade Routes Leads to the Discovery of America; Spain Establishes Colonies in the New World; England, France, Holland, and Sweden Colonize North America

Unit 2: The American Colonies: 1607–1750
The English Establish Thirteen Colonies in America (1607–1732)
England Is Eager to Start Colonies in the New World; Thirteen Colonies Are Founded
Colonial Life Brings Social Change to America (1607–1750)
Colonists Gain a Voice in Colonial Government; Religion, Education, and Social Classes in the Colonies; Geography Affected Economic Life in the New England, Middle, and Southern Colonies; Native Americans and Enslaved Africans Suffer during the Colonial Period

Unit 3: The Road to Revolution and Independence: 1651–1783
British Laws Anger the Colonists (1651–1775)
England Tries to Control Colonial Trade by Passing the Navigation Acts; The French and Indian War Results in More Controls on the Colonies; Colonists Protest against British Controls; New British Taxes and Actions Increase Colonial Anger; The Road to War
Patriots Win their War for Independence (1776–1783)
The Second Continental Congress Meets; Colonists Move toward Independence; Patriots Battle Loyalists; After Overcoming Difficulties, Patriots Win Their War for Independence

Unit 4: From Confederation to Nation: 1776–1788
Americans Begin to Govern Themselves (1776–1787)
Americans Create State Constitutions and Governments; The Articles of Confederation; Congress Organizes the Western Territories; Congress Has Difficulty Solving Problems at Home and Abroad; Some Americans Demand a Stronger National Government
Americans Create the U.S. Constitution (1787–1788)
Congress Calls for a Constitutional Convention; The Convention Solves Problems through Compromise; After Heated Debate, the States Ratify the U.S. Constitution

Basic American History 1, Semester B

Unit 1: The Emergence of a Nation (1789–1824)
Washington and Federalists Lead the New Nation (1789–1801)
A New Government Is Organized; Led by Treasury Secretary Hamilton, the New Government Strengthens the Nation’s Money System; Some Americans Oppose the Government’s Financial Policies; The United States Stays Out of Foreign Wars; Arguments Lead to the Rise of Political Parties; President Adams’ Policies Anger Democratic-Republicans; The Election of 1800—A Peaceful Revolution
America Begins to Grow and Gain Respect Abroad (1801–1824)
Democratic-Republicans Change Some, but Not All, Federalist Policies; The United States Acquires Louisiana; Conflicts with Great Britain Lead to the War of 1812; The U.S. Acquires Spanish Florida and Issues the Monroe Doctrine; The American Economy and Culture Begins to Change and Grow

Unit 2: America Grows and Changes (1825–1853)
Conflicts Divide Americans during Age of Jackson (1825–1841)
The Election of 1824 Renews Old Conflicts; Andrew Jackson Wins the Presidency in 1828; A Growing Spirit of Democracy Sweeps the Nation; Native Americans Lose Their Lands in the East; The Tariff Issue Threatens to Tear Apart the Nation; Even after Retirement, Jackson’s Ideas Continue to Influence America
Americans Move toward the Pacific (1803–1853)
American Settlers Move into Oregon Country; The United States Acquires the Southern Part of Oregon; After Gaining Its Independence, Texas Becomes a Part of the United States; The Mexican War Leads to Further United States Expansion in the West

Unit 3: Increasing Strife Leads to War (1830–1861)
North and South Become Increasingly Different (1830–1850)
The North Is First to Become Industrialized; Industrial Growth Changes American Society; Cotton and Slavery Become Increasingly Important in the South; The Movement to End Slavery Gains Strength; Reformers Tried to Solve Other Problems during the Early to Mid–1800s
Sectional Anger Splits the Union Apart (1850–1861)
Sectional Differences Threaten American Unity during the Early Years of the Republic; The Compromise of 1850 Fails to Calm Growing Anger between Southerners and Northerners; Bitter Arguments over the Spread of Slavery into Western Territories Increase Sectional Anger; Abraham Lincoln Is Elected President and the Southern States Secede from (Leave) the Union

Unit 4: Civil War and Reconstruction (1861–1877)
North and South Fight a Civil War (1861–1865)
Southerners Attack Fort Sumter; the Civil War Begins; Both North and South Have Advantages and Disadvantages; Early Confederate Victories Cause Northern Morale to Decline; The Tide of Battle Begins to Change with Union Victories at Sea and in the West; Lincoln Takes a Major Step toward Abolishing Slavery—The Emancipation Proclamation; General Grant Leads the Union to Victory; President Lincoln, the Preserver of the Union, Is Assassinated
Reconstruction: Blacks Gain, but then Lose Rights (1865–1877)
The Lincoln-Johnson Plan of Reconstruction Is Opposed by Radical Republicans; President Johnson Is Impeached; After Bringing Temporary Benefits to Blacks, Reconstruction Ends in 1877; Southern States Once Again Discriminate against Blacks; Sharecropping, Instead of Slavery, Becomes an Important Part of the South’s Economy

Basic American History 2, Semester A

Unit 1: A Nation Growing: 1865–1900
Indian Way of Life Ends as the West Is Settled (1865–1890)
White America Pushes into Indian Lands in the West; Western Indians Are Defeated and Put on Reservations; Cattlemen and Farmers Settle the West
America Becomes a Great Industrial Nation (1865–1900)
Captains of Industry Lead America into an Industrial Age; Corporations Become an Important Part of America’s Industrial Growth

Unit 2: A Changing America: 1865–1920
America Faces Problems as It Industrializes (1865–1900)
Industrial Workers Face Hardships; Industrial Workers Form Labor Unions but They Find It Difficult to Win Better Wages and Working Conditions; Farmers Also Face Difficulties
America Becomes a More Diverse & Urban Society (1865–1900)
Industrial Growth Leads to a Wider Gap between the Rich and the Poor; Immigration Makes America’s Population More Diverse; Industrialization Results in Rapid Urban Growth
Reformers Try to Solve Problems (1883–1920)

Unit 3: Emergence as a World Power: mid 1800s–1918
America Acquires Overseas Possessions (mid 1800s–1914)
During the Late 1800s, Some Americans Urge Overseas Expansion; The Spanish-American War Makes the U.S. into a World Power; The U.S. Acquires the Panama Canal Zone; The U.S. Becomes Increasingly Involved in Latin American Affairs
U.S. Neutrality, then Involvement in World War I (1914–1918)
Beginning with prehistoric peoples and continuing through to the Renaissance and the Protestant Reformation, this interactive study guide provides students an easy-to-use, comprehensive, chronological coverage of pre-American history. Included are related primary documents, maps, charts and graphs, and art.

**Unit 2: 1492–1763**

Beginning with European exploration and discovery, and continuing through to the settling of North America, this interactive study guide provides students an easy-to-use, comprehensive, chronological coverage of United States history. Included are related primary documents, maps, charts and graphs, and art.

**Unit 3: 1763–1783**

Beginning with the French and Indian War, and continuing through to the end of the Revolutionary War and the creation of the Articles of the Confederation, this interactive study guide provides students an easy-to-use, comprehensive, chronological coverage of United States history. Included are related primary documents, maps, charts and graphs, and art.

**Unit 4: 1783–1789**

Beginning with the Constitutional Convention of 1787, and continuing through to a discussion about the meaning of the Constitution, this interactive study guide provides students an easy-to-use, comprehensive, chronological coverage of United States history. Included are related primary documents, maps, charts and graphs, and art.

**American History 1, Semester B — also available in vCourses**

**Unit 1: 1789–1841: Political Change**

Beginning with the presidency of George Washington, and continuing through to the presidency of Andrew Jackson, this unit provides learners an easy-to-use, comprehensive, chronological coverage of the political change in the United States. Included are related primary documents, maps, charts and graphs, and art.

**Unit 2: 1800–1860: Cultural and Social Change**

Beginning with the presidency of George Washington, and continuing through to the election of Abraham Lincoln to the presidency, this unit provides learners an easy-to-use, comprehensive, chronological coverage of the cultural and social change in the United States. Included are related primary documents, maps, charts and graphs, and art.

**Unit 3: 1861–1877**

Beginning with the Southern secession, and continuing through to the end of Reconstruction, this interactive study guide provides learners an easy-to-use, comprehensive, chronological coverage of United States history. Included are related primary documents, maps, charts and graphs, and art.

**American History 2, Semester A — also available in vCourses**

**Unit 1: A Nation Growing (1865–1914)**

The Western Frontier Is Settled (1865–1890)
America’s Expansion; Western Settlement; Law and Order in the West; Political Organization of the West; The Mining Frontier and Gold Rushes; Native Americans; The “Trail of Tears”; Development of Reservations; Broken Agreements and Armed Conflict; The Ghost Dance; The American Bison; The Dawes Severalty Act; Transportation and Communication in the West; The Growth of the Railroad; The Pony Express and the Telegraph; The Growth of Farming in the West; Western Farmers and Railroad Expansion; Western Farmers and Favorable Government Policies; The Growth of the Cattle Industry; Farm Life; The Granger Movement; Populism; The Last Frontier

Industrializing America (1865–1914)
Factors that Contributed to Economic Transformation; Natural Resources and Labor; The Role of Ideology—Republicanism and Liberalism; Social Darwinism and the Self-Made American; Patents; Inventions; Manufacturing Innovations; The Role of Government Policy—Government Subsidies and Tariffs;
The Public Corporation; Pools, Trusts, and Holding Companies; Vertically and Horizontally Integrated Combinations; The Growth of the Labor Movement; National Labor Union; Knights of Labor; American Federation of Labor; The Beginning of Government Regulation of Business; Federal Laws; Conflicts between Labor and Management; Important Labor Strikes; The Pullman Strike (1894); Anti-Union Tactics; Effects of Industrialization

Unit 2: A Changing America (1870–1920)

The Politics of the Gilded Age (1870–1900)
Political Participation and Party Politics; Political Parties; National Political Tactics; Differences between the Republican and Democratic Parties; Overlap between the Republican and Democratic Parties; Internal Differences within the Republican Party; Internal Differences within the Democratic Party; Sectional Influence on Major Political Issues; Corruption, Scandals, and Civil Service Reform; Corruption; Scandals; The Pendleton Civil Service Act; Economic Issues; Tariffs; The Democratic-Republican Debate over Tariffs; Higher Tariffs Win Out; Monetary Policy; “Sound” versus “Soft” Money; Silver Coinage; Rise of Populism; Formation of the National Populist Party; Results of the Election of 1892; Silver and the Election of 1896; Enduring Influence of the Populist Party
The Making of Urban America (1877–1920)
Internal Migration; Rural Migration; Black Rural-to-Urban Migration; The Tide of Immigrants; The Old and the New Immigration; Entering America; Immigrant Culture; Assimilation; Nativism; Anti-Immigration Groups; Anti-Asian Sentiment and the Chinese Exclusion Act; Other Significant Immigration Laws and Measures; City Life; Inner Cities and Suburbs; Increasingly Crowded Cities; Other Urban Problems; Urban Leisure; Commercialized Leisure; Modern Cities for a Modern Nation
Progressive Era (1890–1920)
Who Was a Progressive? – Muckrakers; Social Reform; Social Gospel Movement; Purity Crusades; The Temperance Movement; Other Purity Campaigns; Women and the Vote; The Status of African-Americans; Economic and Political Reform; Reform at the Local Level; Reform at the State Level; Reform at the Federal Level; Theodore Roosevelt; Roosevelt and the Trusts; Roosevelt and Labor; Roosevelt and Conservation; William Howard Taft; Election of 1912; Woodrow Wilson; Tariffs and Income Taxes; The Legacy of Progressivism

Unit 3: Emergence as a World Power (mid 1800s–1918)
U.S. Involvement in the Pacific/Latin America (mid 1800s–1914)
The First American Overseas Ventures; China; Japan; Other Pacific Areas; Spanish-American War; Significance of the Spanish-American War; Supporters of U.S. Expansion; Opponents of U.S. Expansion; U.S. Pursues an Expansionist Policy; Effects of the Treaty: Puerto Rico, Cuba, and Guam; Effects of the Treaty: the Philippines; The Panama Canal; The Roosevelt Corollary to the Monroe Doctrine; Events in Asia; Japan; China; Anti-Asian Sentiment in the U.S.; The Mexican Revolution; An Imperial Power
America Becomes Involved in World War I (1914–1918)
The Roots of World War I; War Erupts; The U.S. Tries to Remain Neutral; America’s Neutrality Is Difficult; Wilson Is Re-Elected; World War I; Stalemate on the Western Front; The U.S. Enters the War; Problems on the Eastern Front; The Allies Intervene in Russia; American Troops in Europe; The Home Front; The Fourteen Points; The Armistice; The Treaty of Versailles; Negotiations; Terms; The Fate of the Treaty in the U.S. Senate; The Consequences of World War I

Unit 4: Boom, Bust, and Recovery (1920–1941)
America Changes during the Roaring 20s (1920–1929)
Unrest in 1919; Racial Conflict; Labor Strikes; Red Scare; Politics of the 1920s; Civil Rights are Expanded; Labor, Industry, and Agriculture in the 1920s; Recession and Followed by Economic Boom; Industrial Expansion; Favorable Government Policies; Labor, Welfare Capitalism, and the American Plan; Farming in the 1920s; America Changed in the 1920s; Mass Culture; Consumerism; The New Morality; The Lost Generation and the Harlem Renaissance; Reactions to the Changes; The Scopes Trial; Prohibition; Intolerant America; Immigration Restrictions; The New Ku Klux Klan; The “Whispering Campaign” of 1928; Sacco-Vanzetti Trial
Great Depression and New Deal (1929–1941)
The Impact of the Great Crash; The Impact on the U.S. Economy; The Impact on Personal Life; Herbert Hoover’s Actions; The New Deal; The Three “R”s; Relief; Recovery; Reform; Native Americans and African-
Americans under the New Deal; Reviving Global Trade; Roosevelt and His Critics; The Economy Turns Sour Again; The Effects and Heritage of the New Deal

American History 2, Semester B – also available in vCourses

Unit 1: Response to World Threats: 1919–1945
U.S. Foreign Policy between the Two World Wars (1919–1941) – Introduction; The Debt Problem; U.S. Economic Expansion; U.S. Tariff Policy; The Washington Naval Conference and the Kellogg-Briand Pact; Beyond the “Big Stick”; U.S.-Latin American Relations; Germany and Italy: The Quest for Control of Europe; The U.S. Response to Hitler: Isolationism and Neutrality; Japan: The Greater East Asia Co-Prosperity Sphere; The Sleeping Giant: Awakens
World War II and the Post-War Peace (1939–1945)
The Fighting in Europe Begins; Bombing of Great Britain; U.S. Lend-Lease Act; Invasion of the Soviet Union; Pearl Harbor; The United States Enters World War II; The American Economy; Rationing; Revenue Act and War Bonds; End of the Great Depression; Labor Management Issues; New Patterns of Employment; Mexican Workers; Women in the Workforce; Population Movements; African-Americans Move from South to North; Defeating Germany; Fighting in the Soviet Union; Invasion of North Africa and Italy; A Second Front in Western Europe, D-Day; Germany Surrenders; The Holocaust; Midway: The Tide of War Turns in the Pacific; Island Hopping; The War in China; The War in Asia Comes to an End; The Japanese Islands Are Bombed; U.S. Demands Unconditional Surrender; The Potsdam Declaration; Dropping of the Atomic Bombs; The Japanese Surrender; Planning for the Post-War World; The Atlantic Charter; Bretton Woods and Dumbarton Oaks Conferences; Yalta Conference; Costs of the War

Unit 2: The Postwar Era: 1945–1961
Cold War and the Truman Years (1945–1953)
Transition to a Peacetime Economy; Fair Deal; Taft-Hartley Act; Changing Lifestyles; Truman and the 1948 Election; Cold War Politics; Cold War Economics; Containment and the Truman Doctrine; The Berlin Blockade and the Formation of NATO; The “Loss” of China; Occupation of Japan; The Korean War; Implications of the Korean War; Fighting Communism at Home
The Eisenhower Years (1953–1961)
American Voters Seek Change; Modern Republicanism and Eisenhower’s Economic Policies; American Culture in the 1950s; The Civil Rights Movement; Eisenhower’s Foreign Policy and the Cold War; U.S. Concerns about the Soviet Union; The Election of 1960

Kennedy and Domestic Liberalism; Kennedy’s Economic Policies; Kennedy and Civil Rights; Kennedy and “Flexible Response”; Kennedy and Cuba; Kennedy and the Berlin Crisis; Kennedy and South Vietnam; Kennedy and the Space Program; Lyndon Johnson and Civil Rights; The Election of 1964; Lyndon Johnson and the Great Society; Cultural Upheaval in the 1960s; A Divided America; Lyndon Johnson and Vietnam; The Election of 1968
Richard Nixon and the Search for Peace Abroad and at Home; The War Abroad and Chaos at Home Both Continue; Richard Nixon Seeks to Reshape U.S. Global Strategies; Domestic Policies in the Nixon Years; Nixon and Civil Rights; Nixon and the Economy; Nixon and the Election of 1972; Nixon and the Watergate Scandal; The White House Horrors; Nixon Is Forced from Office; Gerald Ford Assumes the Presidency; Ford and the Economy; Ford and Foreign Affairs; The Election of 1976; Jimmy Carter Assumes the Presidency; Carter, the Energy Crisis, and the Economy; Carter and Human Rights; Carter and the Middle East; Carter, the Soviet Union, and China; Carter and Latin America; Carter and Iran; The Election of 1980

Unit 4: New Challenges in a New World Order: 1981–Present
Reagan Takes Office; Reagan’s Economic Policies; Results of “Reagonomics”; Continuing Economic Problems; Reagan’s Domestic Policies; Reagan’s Foreign Policy; The Strategic Defense Initiative (SDI); Overtures to the Soviet Union; Reagan, Latin America, and the Middle East; The Election of 1984; Reagan...
and the Iran-Contra Scandal; The Election of 1988; Bush and Domestic Policy; Bush and Latin America; The End of the Cold War; George Bush and the Gulf War; The Election of 1992
Prosperity, then Terrorism in the Clinton-Bush Years (1993–Present)
The 1992 Election; William J. Clinton Becomes the 42nd President; Clinton’s Domestic Policy; Republicans Gain Control of Congress in the 1994 Elections; Clinton and the Republican Congress; Clinton’s Foreign Policy; The Election of 1996; Clinton’s Second Term; Scandals, Impeachment, and the Congressional Elections of 1998; Foreign Policy in Clinton’s Second Term; The 2000 Election; George W. Bush Becomes the 43rd President; Bush’s Initial Policies; Terrorism in America; America’s Military Response to September 11th; Domestic Reactions to Terrorism; Reassessing American Foreign Policy; Bush’s Remaining First Term; Foreign Policy and Events; The Iraqi War and Its Aftermath; Constructing a New Iraqi Government; Other Foreign Policy Developments; Domestic Policy and Events; Congressional Actions; The 2004 Election

Advanced History – AP* Edition, Semester A – also available in vCourses

Unit 1: The Historical Process
This unit focuses on the process of understanding history as a subject. It provides a framework for understanding history from a topical and a periodization standpoint and discusses how dividing history into specific periods can aid in studying trends, continuity, and changes across time. The unit begins by explaining how reading and writing skills are essential to the study of history and goes on to outline the importance of essays and other resources, such as charts and maps, the different methods that historians have used to gather evidence, and various ways to interpret and evaluate different sources. Sources are also categorized and the importance of each is discussed. Various perspectives in interpreting history are also studied, including traditional, revisionist, top-down and bottom-up perspectives. Students also learn why historical events are studied, restudied, and evaluated across time, and how American historical events are relevant to current events in the nation and across the world.

Unit 2: Early America
This unit introduces and analyzes indigenous American civilizations, their cultural and political achievements before the Europeans arrived in the Americas, such as early democracy and the engineering of Tenochtitlan. Students also learn about American Indian cultures of the fifteenth and sixteenth centuries, such as the Aztecs and Incas, and their early interactions with Europeans, including the role played by religion, disease, and weaponry. This unit looks at the establishment of Spanish, French, and English colonies in the Americas, and how trade and religion influenced the interactions between the Europeans and the native peoples. It compares the Jamestown and Plymouth colonies, and the gradual establishment of the thirteen British colonies, their individual cultural and political identities, and their relationship with Great Britain. Students also learn about triangular trade, the economic and social structures and trade between the colonies and Britain, and immigration to the colonies. This unit also looks at the growth of a plantation economy and the role of cash crops in the southern colonies that brought slavery and class structures to the colonies in the eighteenth century. The unit concludes with an analysis and comparison of the Enlightenment and the Great Awakening, each movement’s roots, principles, and thinkers, and how each movement influenced the colonies in the mid-eighteenth century, particularly in terms of religious and political thought.

Unit 3: Revolutionary America and the New Republic
This unit discusses the French and Indian war and how this war laid the foundation for colonial demands for independence. Students learn about the European roots of this war, the Albany conference, the war’s impact on the relationship between France and Britain, and on Britain’s economy. This unit goes on to examine the events that led to the American colonists demanding independence from Britain, such as the Stamp Tax, the Townshend Duties, and the Intolerable Acts, and how these events led to the establishment of the Continental Congress and the Committees of Correspondence, and how different classes and geographical groups reacted to British taxes and policies in the colonies. Students also learn about the Boston Massacre, the Boston Tea Party, the declaration of war, and America’s Declaration of Independence, the major battles of the Revolutionary War, France’s aid, foreign intervention, and the colonists’ eventual victory and secession from Britain. This unit proceeds to analyze the Articles of Confederation that evolved into the Constitutional Convention, the debates between Federalists and
Anti-Federalists, the US Constitution, and the Bill of Rights. Students learn about George Washington’s presidency, the establishment of the powers of the president, his department heads, and key legislation of his administration. This unit also analyzes the establishment of political parties, how Washington’s decision to step down after two terms set a precedent in American politics, his Farewell Address and Neutrality Proclamation. It compares the Democratic-Republic Party led by Thomas Jefferson and the Federalist Party led by Alexander Hamilton and John Adams, and analyzes Federalism, and the presidencies of Adams and Jefferson. This unit covers early westward expansion of the United States, such as the Louisiana Purchase, as well as why Americans chose to move west. Hostilities between American settlers and American Indians, and violence toward and oppression of the native tribes are also covered. The unit concludes with the circumstances that led to the renewed conflict with Britain, such as British interference with neutral trade during the Napoleonic Wars, which resulted in the War of 1812, the major battles of the war, and the legacies of the Battle of New Orleans and the Treaty of Ghent.

Unit 4: An Era of Transformations

In this unit, students learn about industrialization in and immigration to the northern states in the early nineteenth century, theories of capitalism and the emergence of a free market-based economy, immigration trends, and nativism. This unit also lists the inventions that made the cotton industry central to the southern economy, and led to their dependence on slave labor. It goes on to compare the economies, structures, and society of northern, southern, and western states, and looks at the crises and compromises of the early nineteenth century, including the Missouri Compromise. Students learn about the Bank Wars, controversies regarding tariffs and states’ rights against national sovereignty, as well as the judiciary’s role in establishing federal and state powers. The unit also covers Andrew Jackson’s presidency and major events like nullification, the banking crisis, and Indian policy, how the Trail of Tears developed conflict between the judiciary and executive branches, and compares Jacksonian and Jeffersonian democracies. The unit goes on to discuss religion in the early nineteenth century including Revivalism and Evangelical Protestantism, how religion influenced politics, particularly the Enlightenment, Secularism, and Rationalism against the reactionary religious revival, and covers the Second Great Awakening. Students also learn about the main figures in the transcendental theological and literary movement, American romanticism in arts and literature, and the popular press and mass culture. Students find out about how American Indians were forced to migrate, evaluate historical debates for and against the forced removal of natives from their land, and analyze US treaties and policies towards American Indians such as the Indian Removal Act. This unit covers Manifest Destiny, the United States’ westward expansion, and cultural interactions between settlers and indigenous populations, particularly in Mexico, Texas, California, and Oregon. The unit concludes with an analysis of the Mexican-American War, its main events and battles, the Treaty of Guadalupe Hidalgo, how this war contributed to American imperialism, and historical arguments for and against the US annexation of the southwest.

Unit 5: The Civil War

This unit goes deeper into the economies and politics of the northern and southern states with a focus on Clay’s American system and Polk’s opposition to it. This unit also covers the legislative policies pertaining to slavery in the early nineteenth century and debates the ethical dimension of slavery dating from the Constitutional Convention, including Abolition, the Missouri Compromise, and the Wilmot Proviso; identifies key abolitionist figures, slavery leaders; and assesses arguments made for and against slavery. This unit discusses major events that led to the Civil War, such as the Compromise of 1850, the Kansas-Nebraska Crisis, the publication and popularity of Uncle Tom’s Cabin, anti-slavery societies, and sectional splits in northern and southern churches. It also analyzes the role that the US Supreme Court played in the slavery debate and the abolitionists’ split over John Brown’s raid on the Harper’s Ferry armory in 1859. This unit goes on to discuss how Abraham Lincoln’s “House Divided” speech affected the southern states, his election to the presidency in 1860, his attempts to avoid the Civil War, and reasons that the southern states wanted to secede. This unit analyzes the economic, political, and military strengths of the Union and Confederacy when the Civil War erupted, prominent political and military leaders from each side, and foreign intervention in America’s war. Students also learn about the Bull Run, the Peninsula Campaign, the 90-day war, Antietam, the Battle of Shiloh, and other major battles of the Civil War. This unit also compares leaders such as Lincoln and Davis, and Lee and Grant. It also compares the war’s effects on the Union and Confederacy, the surrender of the Confederates, and Lincoln’s assassination.
This unit ends by evaluating the role played by African Americans and women in the Union’s war efforts, disagreements among abolitionists regarding the extent of African American rights, and the Emancipation Proclamation and its impact on the Civil War.

Unit 6: Reconstruction

In this unit, students learn about the Confederate states at the end of the Civil War, the ambitions and main goals of the Reconstruction, the US Constitution’s Thirteenth, Fourteenth, and Fifteenth Amendments, and the conflict between President Johnson and the Republican Congress leading up to his impeachment. This unit also analyzes Reconstruction programs, contrasts carpetbaggers and scalawags, the Black Reconstruction and Reaction, and examines the role that African Americans played in the Reconstruction. Students also learn about tense race relations in the southern states, the Tilden/Hayes controversy, the compromise of 1877 and its impact on social history, and the effects of Reconstruction. This unit analyzes how the southern economy adapted to the abolition of slavery through sharecropping and the crop-lien system, and how the abolition of slavery encouraged industrialization to spread from the North to the South. This unit concludes with an analysis of the Jim Crow laws in the southern states, the growth of a militant white supremacy after Reconstruction, and how the Compromise of 1877 effectively led to intensifying institutionalized racism in the southern states, as is exemplified by the emergence of the Ku Klux Klan.

Advanced History – AP* Edition, Semester B – also available in vCourses

Unit 1: The Changing Nation

This unit is vital to understanding the factors that contributed to America’s westward expansion beyond the Mississippi River, the transcontinental railroad, new farming and mining techniques, and the role of the government in westward expansion. It covers how this westward expansion affected the United States and American communities, such as racial and ethnic groups. Students will also learn what led to the Industrial Revolution in the late nineteenth century, significant inventors and inventions, and how these inventions affected American society and the workforce, led to the creation of labor unions and clashes between these unions and corporations. Students find out about the factors that contributed to the high immigration rates during the late nineteenth century, what groups made up these new immigrants, and their impact on American society. The unit also covers how industrialization and immigration led to the growth of American cities, the political leanings in these cities, and the contrasting lifestyles of the upper, middle, and working classes in the cities. It looks at the new technologies, transportation systems, and other facilities available in American cities. Lastly, students learn about how industrialization in the late nineteenth century affected intellectual and cultural movements such as literature, art, religion, social reform, and leisure activities.

Unit 2: Populism and Progressivism

This unit examines American political practices during and after the Civil War, including the corruption of the Grant Administration and other domestic political issues. It also examines the populist movement of the late nineteenth century, how the agricultural economy affected this movement, the Granger movement, and the election of 1896. This unit looks at the Progressive Era, its main tenets and legislative victories, and the presidencies of progressives like Theodore Roosevelt, Taft, and Wilson. Students also learn about the election of 1912, the Federal Reserve, the Nineteenth Amendment, and how Progressivism changed the role of government. The unit then concludes with how Progressivism and industrialization changed the roles of African Americans and women, compares prominent African Americans like WEB DuBois and Booker T. Washington, and looks at the women’s suffrage movement and leading women activists of the era.

Unit 3: The United States on the Global Stage

This unit explores the global role of the United States through the expansionism of the late nineteenth century, the Spanish American War, and the Filipino War, and how they affected US foreign policy and imperialism. The unit also examines the causes of World War I, why America chose to abandon its initial neutral stance to side with the Allies in Europe, America’s efforts on the home front, major battles on the warfront, President Wilson’s world view, the Treaty of Versailles, and the League of Nations. Students learn about the prosperity of the 1920s caused by major economic developments such as advertising and
consumerism, the stock market bubble created in this decade, and the presidencies of the Republicans Harding, Coolidge, and Hoover. This unit also looks at the effects of Modernism in the 1920s on art, science, religion, popular thought, and culture, through Freud’s psychological theories, the Art Deco movement, the development of Jazz, and the Harlem Renaissance. It ends with the antimodernist sentiments brought to the fore in the 1920s, the resurrection of the Ku Klux Klan, religious fundamentalism, xenophobia, how nativism influenced political thought in this decade, race relations, the establishment and subsequent repeal of Prohibition, and the changing attitudes toward minorities and women.

Unit 4: The Great Depression and the New Deal

In this unit, students understand how the stock market bubble burst, leading to the stock market crash of 1929 and the Great Depression in the 1930s, President Hoover’s inability to prevent the collapse of the US economy, and how the crash affected US society across the 1930s. It examines FDR’s presidency, his administration’s strategies for dealing with the Great Depression, including the New Deal programs and the 3 R’s: Relief, Recovery, and Reform, the increased government involvement in the US economy, and how the unstable economic conditions led to the rise of socialism and communism in the nation. Students will learn about FDR’s first two presidential terms, his New Deal coalition, opposition to and support for the New Deal programs, and shifting loyalties between the Republicans and Democrats during the Great Depression. This unit concludes by looking at how the Great Depression and the New Deal affected American society and expanded the role of the federal government; how American culture changed in the 1930s with innovations in popular electronic entertainment that provided escape to the masses from grim economic times; and how it changed how presidents interacted with the people, as exemplified by FDR’s famous fireside radio chats.

Unit 5: World War II

This unit traces the rise of fascism, totalitarianism, and militarism in the world and how the United States responded to it. It covers the rise of Hitler in Germany and Mussolini in Italy and Japan’s militarism, how nations around the world split into the Allies and Axis countries as World War II became inevitable, how the United States again assumed a neutral position, while really supporting the Allies, and the forces behind the nation’s isolationism. Then this unit identifies events that led to the United States entering World War II, such as Japan’s attack on Pearl Harbor. It examines the “theaters of war” and traces the Nazi defeat in Europe, major battles in the Pacific. Students will also learn about the Manhattan Project, how the United States responded to Japanese resistance by unleashing atomic bombs on Hiroshima and Nagasaki, and the reactions to and repercussions of these acts. Students also learn how World War II changed American society, the role of women and African Americans, the changes in the US economy, and how the United States emerged from this war as the world’s leading economic power. This unit concludes with an explanation of how the federal government changed in the United States, the Executive Order 9066, and the civil rights activities during and after the war.

Unit 6: The Cold War and the Transformation of American Society

This unit explores the causes behind the Cold War with the Soviet Union, President Truman’s policy towards the Soviets, early Cold War incidents such as the Berlin Airlift, the Marshall Plan, and political theories of the time on how to deal with the Soviet Union. Students also learn about the Asian Cold War, the Chinese Civil War, how the United States reacted to the collapse of the Republic of China, what led to the Korean war and its impact on American politics, why General MacArthur was fired, the post-World War II US economy, and how the Republican majority in the 80th Congress resulted in the rejection of Democratic policies. This unit also covers President Truman’s approach to civil rights and his Fair Deal, and the rise of anti-Communist feelings in the United States. It analyzes Eisenhower’s foreign policies, the Red Scare and McCarthyism in the nation, compares the foreign policies of Cold War presidents Truman, Eisenhower, and Kennedy, and summarizes events such as how the Cuban Missile Crisis affected Cold War diplomacy. This unit goes on to examine the modern civil rights movement in the 1950s, including key civil rights leaders, events, and achievements through speeches, documents, and other sources. The unit concludes by exploring how American society, and in particular the middle class, changed in the 1950s because of the wartime economy, scientific and medical innovations, federal investments in education and infrastructure leading to the growth of suburbs, the influence of television on the middle class, and the emergence of a dominant youth culture.
Unit 7: Changing Times: The Tumultuous Decades of the 1960s and 70s

This unit deals with the election of 1960 and President Kennedy’s victory. It examines his administration, his domestic policies, and his view on civil rights. The unit also looks at the civil rights movement of the 1960s, its main activists, such as Martin Luther King Jr., and the freedom riders. It goes on to evaluate Truman’s and Johnson’s administrations, the Great Society Legislation, and the War on Poverty, the Vietnam War and reactions to the war in the United States, and the counterculture movement. The popular culture, Black Power, and Feminist movements of the 1960s and 70s are addressed. Students learn about the election of 1968, Nixon’s presidency, Nixon’s and Kissinger’s foreign policies, the concept of an “Imperial” presidency, and the Watergate scandal. This unit concludes with a glimpse into the 1970s and 80s, including the Ford and Carter administrations, changes in the US economy such as de-industrialization, and moving toward a service-based economy. The energy crisis, the establishment of OPEC, the environmental movement, the end of détente, and the resolution and implications of the Iran hostage crisis are also covered.

Unit 8: The Return of Conservatism and the Post-Cold War Era

This unit covers the 1980 election and Reagan’s presidency, his economic policies and their impact on the US economy and politics, his foreign policies, his relationship with Soviet President Gorbachev and the end of the Cold War, and also the fall of the Berlin Wall, the Eastern Block, and the Soviet Union. This unit also covers demographic changes in the United States brought on by the retirement of the Baby Boom generation and a new wave of immigration, and also identifies migration patterns from the 1960s to the 1980s. Students learn about post-Cold War foreign military policies of George W. H. Bush, Bill Clinton, and George W. Bush, including the Gulf, Iraq, and Afghanistan Wars. It also compares unilaterism with multilateralism and idealism with realpolitik. Students look at terrorism within and outside the United States, including the roots of radical Islamic terrorism, the September 11, 2001 attacks, the Global War on Terror, and the changes in US foreign policy designed to tackle terrorism. This unit concludes by exploring the modern environmental movement to contain climate change and environmental degradation.

World History, Semester A – also available in vCourses

Unit 1: Early Civilizations

Middle Eastern Civilizations: Geographic Setting, First Civilizations, The Sumerian Civilization, The Early Egyptian Civilization, New Kingdoms, Religious and Cultural Developments in the Levant, The Decline of Mesopotamia and Egypt


Unit 2: The Growth of Civilization

The Triumph of Greek Civilization: Our Heritage from Ancient Greece, Geography, Early Greek Civilization (3000-1200 B.C.), The Greek Dark Age (1200-800 B.C.), Government in Classical Greece (800-400 B.C.), Greek Trade and Colonization (800-600 B.C.), Sparta, Athens, The Persian Wars, The Peloponnesian Wars, Philip II of Macedon, Alexander the Great, Hellenistic Age, Architecture and Art, Drama, Philosophy, Science and Technology, Greek Society

The Rise and Fall of Rome: Our Heritage from Ancient Rome, The Early Roman Republic, From Republic to Empire, The Pax Romana, Christianity Develops in the Roman Empire, Persecution of Christians in the Roman Empire, Christianity Gains Acceptance in the Roman Empire, The Decline of the Roman Empire

The Rise and Spread of Islam: The Arabian Peninsula, The Founding of Islam, Islam as a Religion and a Culture, The Spread of Islam in the Middle East, Rise and Fall of the Abbasid Dynasty, The People under Islam, Spread of Islam Beyond the Middle East

Unit 3: The World in Transition
World History, Semester B

Unit 4: The Early Modern World


Mongols, Moguls, and Ottomans: Genghis Khan and the Rise of Mongolian Power, Kublai Khan, Marco Polo, Decline of Mongolian Power in China, The Mongols in Russia, Southeast Asia under Mogul Rule, The Grandeur and Decline of the Ottoman Empire

World History, Semester B – also available in vCourses

Unit 1: Political and Cultural Revolution

The Age of Revolution: The Enlightenment (17th to early 19th centuries), The American Revolution (1776-1783), The French Revolution (1789-1799), The Rule of Napoleon Bonaparte (1799-1815), Effects of the French Revolution, Revolution in Latin America

The Industrial Revolution: Causes of the Industrial Revolution, Important Developments in the Industrial Revolution, Effects of the Industrial Revolution


Unit 2: European Domination

The Impact of Nationalism: The Effects of the Congress of Vienna, Unification of Germany, Unification of Italy, Nationalism in Eastern Europe

Advances in Democracy: Political, Economic, and Social Democracy, Advances in Democracy in Great Britain and France, Status of Democracy in Other Nations of Europe, Status of Democracy in North America, United States, Slavery, Education, Women’s Rights, and Other Reforms, Canada, Mexico, La Reforma, 1910 Revolution

European Imperialism in Africa and Asia: Reasons for European Imperialism, Extent of European Imperialism, Impact of Imperialism

Unit 3: The World at War

Russia: Reform, Repression, and Revolution: Autocratic Russia in the 19th Century, Reform and Reaction, Revolutionary Factions in Russia, World War I and Revolution, Global Impact

Causes, Course, and Conclusion of World War I: Europe before World War I, The World at War, The Treaty of Versailles and Its Effects

Causes, Course, and Conclusion of World War II: Prelude to War, Fascist Aggression and Western Appeasement, The World at War, The Holocaust

Unit 4: The World Since 1945

The Early Years of the Cold War: Europe at War’s End, The Cold War, The Cold War after Stalin, The United Nations and International Law
Geography, Semester A – also available in vCourses

Unit 1: The Geographer
This unit provides information on how to use and construct maps, globes, atlases, and other geographic tools to locate and derive information about people, places, and environments.

Unit 2: The Earth
This unit describes the major components of Earth—atmosphere, hydrosphere, lithosphere, and biosphere—and how they interact, including the forces that modify Earth’s surface and how weather and climate are produced.

Unit 3: United States
This unit covers the physical and human geography of the United States, including its topography, climate, vegetation, resources, population, and economic, urban, and political geography.

Unit 4: Canada
This unit covers the physical and human geography of Canada, including its topography, climate, vegetation, resources, population, and economic, urban, and political geography.

Geography, Semester B – also available in vCourses

Unit 1: Europe
This unit covers the physical and human geography of Europe, including its topography, climate, vegetation, resources, population, and economic, urban, and political geography.

Unit 2: Countries of the CIS
This unit covers the physical and human geography of Russia and other countries of the CIS, including their topography, climate, vegetation, resources, population, and economic, urban, and political geography.

Unit 3: Oceania
This unit covers the physical and human geography of Oceania, including its topography, climate, vegetation, resources, population, and economic, urban, and political geography.

Civics, Semester A

Unit 1: Basic Concepts of Power and Authority

Unit 2: National Institutions of Government, Part 1

Unit 3: National Institutions of Government, Part 2


Civics, Semester B

Unit 1: Society


Unit 2: Being a Citizen


Unit 3: Policy and the Citizen


U.S. Government, Semester A – also available in vCourses

Unit 1: Foundations of American Government
American Political Culture
Political Socialization; Characteristics of a Nation; Geography; Population; Sovereignty; Government; Bureaucrats; Unitary, Confederal, and Federal Governments; Totalitarian and Authoritarian Governments; Democratic Government; Direct vs. Indirect Democracy; Political Parties; Constitutional Government; Governments without a Constitution; Economic Systems; Capitalism; Socialism; Communism; America: A Mixed-Capitalist Economic System
The Philosophy of the U.S. Constitution
The Greeks; Plato and Aristotle; The Romans; Feudalism; The Reformation; The Magna Carta; Thomas Hobbes (1588–1679); The Enlightenment; The English Bill of Rights; John Locke (1632–1704); Montesquieu (1689–1755); Mercantilism; The Spanish and French Colonies; The English Colonial Experience; Similarities and Differences of the American Colonial Empires; Experiments with Government in the English Colonies; Different Types of English Colonial Governments; Limitations of English Colonial Government; The Road to Revolution; Imperial Battles for Dominance in the New World; The End of “Salutary Neglect”; The First Continental Congress; The Second Continental Congress; The Declaration of Independence

Unit 2: The Constitution
Writing the U.S. Constitution
Government under the Articles of Confederation; Foreign Affairs under the Confederation; Fatal Flaws of the Articles of Confederation; The Constitutional Convention; The Great Compromise; The Three-Fifths Compromise; Powers of the Federal Government under the Constitution; The Struggle over Ratification; The Preamble to the Constitution
The Constitution as a Governing Document
The Preamble to the Constitution: Basic Principles of the Constitution; Federalism; Separation of Powers; Checks and Balances; How Congress Is Organized and Does Business; The Elastic Clause; The Presidency; The Judicial Branch; Interstate and Federal-State Cooperation; Amending the Constitution; The Supremacy Clause; Article VII; The Bill of Rights; The “National Supremacy Amendments”; The “Progressive Amendments”; The Unwritten Constitution

Unit 3: Linkage Institutions
The Media
What Is Public Opinion?; How Public Opinion Is Measured; Types of Political Polls; Potential Shortcomings of Polls; How Polling and Public Opinion Affect Politicians, Politics, and Policy; The Media’s Influence on the Public; The Contemporary Media Scene; Private Ownership of the Media; Government Regulation of the Media; How the Media Cover Politicians and Government; How Politicians Use the Media
Political Parties
Political Parties Defined; History of Political Parties in America; Democrats and Republicans Today; The 2000 Presidential Election; The Two-Party System; The Single-Member District/Plurality Voting Electoral System; Proportional Representation Electoral Systems; Party Structure; Political Parties in Congress; The Party-in-the-Electorate; Interest Groups; Interest Group Methods; Interest Group Formation and Maintenance
Campaigns and Voting
Election Campaign Functions; The Nomination; The Personal and Organizational Campaigns; Campaign Finance; The Media Campaign; The Media Response to the Media Campaign; The General Election Campaign; Change and Legitimacy; The Purposes Served by Elections; Costs and Benefits of Voting; Participation and Voter Turnout in the United States

U.S. Government, Semester B – also available in vCourses

Unit 1: The Congress and the Presidency
The Congress
Legislative Powers of Congress: Enumerated and Implied; Non-Legislative Functions of Congress; Confirmation and Ratification; Legislative Oversight; Amending the Constitution; Impeachment; Qualifications for Office; The Membership of Congress; Decision-Making of Individual Members of Congress; The Bicameral Nature of Congress; The Term of Congress; Congressional Leadership; Speaker of the House; President of the Senate; Majority and Minority Leaders; The Committee System; Standing Committees; Joint, Conference, and Ad Hoc Committees; Membership of Committees; Congressional Staff; Congressional Support Agencies; The Legislative Function: How a Bill Becomes a Law; Role of the Subcommittee; Congress Passes the Bill
The Presidency
The President’s Constitutional Qualifications; Order of Succession to the Presidency; Electing the President; Removing the President from Office; The Constitutional Powers of the Presidency; Commander-in-Chief of the Armed Forces; Chief Diplomat; Chief Legislator; Chief Executive; Chief of State; The President and Congress; The President and the Judiciary; The Changing Nature of the Presidency

Unit 2: Other Governing Institutions
The Federal Bureaucracy
Defining “Bureaucracy”; Classifying the Bureaucracy; Cabinet-Level Departments and Their Agencies; Iron Triangles and Issue Networks; Independent Agencies; Government Corporations; Working in the Bureaucracy; The Civil Service; Working in the Bureaucracy: Political Appointees; Administrative Discretion; The Issue of Accountability
The Judiciary
Federal Courts Are Established by Act of Congress; District Courts; Courts of Appeals; Supreme Court; How a Case Gets to the Supreme Court; The Relationship between the Federal and State Court Systems; Factors in Judicial Decision-Making; Selection of Judges and Justices; Powers of the Courts; Landmark Cases of the Supreme Court; Civil Liberties; Civil Rights; Affirmative Action State, Local, Territorial, and Tribal Government
State Constitutions; History of State Constitutions; State Constitutions Today; The Purpose of State Government; Elections; Public Safety; Chartering Corporations; Supervision of Local Governments; Federalism; Relationship of State Governments to National Government; State Political Culture; The Structure of State Governments; Legislative Branch; Executive Branch; Judicial Branch; Local Government; Types of Local Governments; Globalization and Local Governments; Washington, D.C.—A Unique City; Revenues; Tribal Government; Federal/Tribal Relations Today; Territorial Governments

Economics, Semester A – also available in vCourses
Unit 1: Foundation and Concepts
Market Economy, Comparative Advantage, Specialization, and Productivity, Comparative Advantage and Specialization, Productivity and Labor Productivity

Unit 2: The Market Economy


Summary

Economics, Semester B – also available in vCourses

Unit 1: Market Institutions

Economic Growth, Gross National Product (GNP) and Gross Domestic Product (GDP), Nominal and Real GNP and GDP, Technological Innovation and Government Policies Affect Economic Growth, Ways to Measure Economic Growth Other Than GNP and GDP, Standard of Living, Per Capita GDP, Cost of Living, Distribution of Income, Uneven Economic Growth, Summary

Unit 2: Government and the Economy

Unit 3: The Consumer
Electives

Anthropology I: Uncovering Human Mysteries— also available in vCourses

The aim of anthropology is to use a broad approach to gain an understanding of our past, present and future, and in addition address the problems humans face in biological, social and cultural life. This course will explore the evolution, similarity and diversity of humankind through time. It will look at how we have evolved from a biologically and culturally weak species to one that has the ability to cause catastrophic change. Exciting online video journeys to different areas of the anthropological world are just one of the powerful learning tools utilized in this course.

Anthropology II: More Human Mysteries Uncovered— also available in vCourses

Anthropology has helped us better understand cultures around the world and through different time period. This course continues the study of global cultures and the ways that humans have made sense of their world. We will examine some of the ways that cultures have understood and gave meaning to different stages of life and death. The course will also examine the creation of art within cultures and examine how cultures evolve and change over time. Finally, we will apply the concepts and insights learned from the study of anthropology to several cultures found in the world today.

Archeology: Detectives of the Past— also available in vCourses

George Santayana once said, “Those who cannot remember the past are condemned to repeat it.” The field of archeology helps us to better understand the events and societies of the past that have helped to shape our modern world. This course focuses on this techniques, methods, and theories that guide the study of the past. Students will learn how archaeological research is conducted and interpreted, as well as how artefacts are located and preserved. Finally, students will learn about the relationship of material items to culture and what we can learn about past societies from these items.

Art History and Appreciation — also available in vCourses

Unit 1: What is Art? Creation and Communication

This unit covers approximately two weeks of instruction. This unit explores the main concepts of art, expression and creativity. It answers questions like what is art, what is creativity, and explains how and why people respond to art. It also covers basic design principles such as emphasis, balance, and unity, and the art evaluation process. The discussion of art includes art vocabulary, and also elaborates on the different media, tools, techniques, and processes artists use. This unit focuses on how to analyze images and the meanings that the artists convey through their art, whether denotative, connotative, persuasive, or rhetoric.

Unit 2: Art, History, and Culture

This unit covers approximately two and a half weeks of instruction. Art in the form of sculptures, paintings, and tools from the Paleolithic and the Neolithic ages is explained in a way that reflects the lifestyle and advances of people during the Stone Age. The unit explores Egyptian art, including the famous Egyptian pyramids and funerary art. It also discusses Classical Greek and Roman art, including paintings, sculptures, and pottery. Greek and Roman architecture, such as temples and the monumental structures of the Acropolis and Coliseum are also highlighted.

Unit 3: Western and World Art Appreciation

This unit covers approximately three and a half weeks of instruction. Students will explore the influence of the Church on art, including sacred images, architecture, paintings, sculptures, manuscripts, and mosaics. This unit will also discuss Islamic art and architecture and Renaissance art. It will explore art from Africa and from India, China, Japan, and other Asian countries. It concludes with art from the Americas, exploring the key features of American Indian art from different native civilizations and of Latin American art, including famous Latino artists such as Frida Kahlo and Diego Rivera.

Unit 4: Art and the Modern World
This unit covers approximately three weeks of instruction. Christian art and its influences were discussed in the previous unit. This unit explores art from the Reformation and Counter-Reformation periods, particularly the distinctions between secular and sacred art that occurred when the Church split. It goes on to cover the characteristics of baroque art and architecture and how it is distinct from work of the Renaissance period. This unit also focuses on how the printing press revolutionized post-Renaissance art. It proceeds to elaborate on the blurred distinction between art and science in the modern world and the new media available to artists, which combine to make art a multisensory experience. This unit concludes by exploring how art influences and is influenced by politics and culture in the modern world.

Unit 5: Art in the 20th Century and Today

This unit covers approximately three weeks of instruction. Students will explore modern architecture, new technologies, materials, and designs. This unit focuses on the relationship between form and function in architecture and famous architects, such as Louis Sullivan and Frank Lloyd Wright, their work, and their inspirations. This unit elaborates on modern design movements, such as the International Style, and modern industrial design and designers. It also focuses on developments in art after World War II. The unit examines contemporary art and artists and discusses newer careers in art, including animation and game design. To conclude, this unit looks at the visual culture that developed in the latter half of the 20th century, including photography, cinema, and television, as well as digital and computer-generated art.

Computer Applications and Technology – also available in vCourses

Unit 1: Introduction to Computers

This unit covers approximately two weeks of instruction. It provides an overview of the parts of a computer and the basic tasks performed on a computer. In this unit, the student will determine the purpose and functions of a computer’s input devices, output devices, hardware components, operating system, and software applications. This unit also demonstrates basic computer tasks such as managing folders and files and maintaining a computer.

Unit 2: Getting Connected with Technology

This unit covers approximately two weeks of instruction. It illustrates the use of computers in our everyday lives. Students will explore online tools and resources to search the Internet, send email, and connect with people. The unit will explore the advantages and disadvantages of using computers and how computers have influenced society in recent times.

Unit 3: Word Processing

This unit covers approximately four weeks of instruction. In this unit, students will work with word-processing software and its key components, and they will perform basic manipulation functions. Students will demonstrate how to create, modify, and print a document, as well as how to use various text editing and formatting tools. The unit explores how to track changes in a document and how to add, edit, and remove comments. It also explains how to create and format a table and insert and format images or graphics in a document. Students will explore reference tools, such as footnotes and endnotes, design a title page for a research paper, and demonstrate how to save a document as a webpage.

Unit 4: Spreadsheets and Databases

This unit covers approximately three weeks of instruction. In this unit, students will explore the types of documents that are appropriate to create using spreadsheet software and work with spreadsheet software and its key components. They will also perform basic spreadsheet manipulation functions. This unit illustrates creation, naming, and formatting of a worksheet and how to create and insert simple formulas and functions. It covers how to create, modify, and publish charts, as well as how to integrate spreadsheet data into word processing and presentation documents and sort and filter fields in a table. This unit also addresses the benefits of storing information in a database.

Unit 5: Presentations

This unit, which covers approximately four weeks of instruction, will familiarize students with presentation software and its key uses. Students will discover how to create effective presentation documents and determine the formatting. They will also explore how to use images, sounds, and animations in presentation documents, as well as gain familiarity with drawing and flowchart tools. This unit shows
students how to print and distribute a presentation, how to run a slideshow, and how to save the presentation as a web page. Students will use the information in this unit to develop and present their own electronic slideshow.

Criminology: Inside the Criminal Mind— also available in vCourses
In today’s world, crime and deviant behavior rank at or near the top of many people’s concerns. In this course, we will study the field of Criminology – the study of crime. We will look at possible explanations for crime from the standpoint of psychological, biological and sociological perspectives, explore the categories and social consequences of crime, and investigate how the criminal justice system handles not only criminals, but also their misdeeds. Why do some individuals commit crimes why others do not? What aspects in our culture and society promote crime and deviance? Why are different punishments given for the same crime? What factors… from arrest to punishment… help shape the criminal case process?

Digital Art
This is an effective and comprehensive introduction to careers in the rapidly expanding world of digital art. The course covers creative and practical aspects of digital art in 15 lessons that are enhanced with online discussions and a variety of activities. Beginning with a history of digital art, the course goes on to issues of design, color, and layout. While students will experience creation of digital art, they will also learn about converting traditional art to digital formats. They will also learn about creating a personal portfolio to prepare themselves for career opportunities.

Digital Photography I: Creating Images with Impact!— also available in vCourses
Have you ever wondered how photographers take such great pictures? Have you tried to take photographs and wondered why they didn’t seem to capture that moment that you saw with your eyes? The Digital Photography I course focuses on the basics of photography, including building an understanding of aperture, shutter speed, lighting, and composition. Students will be introduced to the history of photography and basic camera functions. Students will use the basic techniques of composition and camera functions to build a portfolio of images, capturing people, landscapes, close-up, and action photographs.

Digital Photography II: Discovering Your Creative Potential— also available in vCourses
In today’s world, photographs are all around us, including in advertisements, on websites, and hung on our walls as art. Many of the images that we see have been created by professional photographers. In this course, we will examine various aspects of professional photography, including the ethics of the profession, and examine some of the areas that professional photographers may choose to specialize in, such as wedding photography and product photography. We will also learn more about some of the most respected professional photographers in history and we will learn how to critique photographs in order to better understand what creates an eye catching photograph.

Forensic Science I: Secrets of the Dead— also available in vCourses
Fingerprints. Blood spatter. DNA analysis. The world of law enforcement is increasingly making use of the techniques and knowledge from the sciences to better understand the crimes that are committed and to catch those individuals responsible for the crimes. Forensic science applies scientific knowledge to the criminal justice system. This course focuses on some of the techniques and practices used by forensic scientists during a crime scene investigation (CSI). Starting with how clues and data are recorded and preserved, the student will follow evidence trails until the CSI goes to trial, examining how various elements of the crime scene are analyzed and processed.

Forensic Science II: More Secrets of the Dead— also available in vCourses
Although the crime scene represents the first step in solving crimes through forensic science, the crime laboratory plays a critical role in the analysis of evidence. This course focuses on the analysis of evidence and testing that takes place within this setting. We will examine some of the basic scientific principles and knowledge that guides forensic laboratory processes, such as those testing DNA, toxicology, and material analysis. Techniques such as microscopy, chromatography, odontology, entomology, mineralogy, and spectroscopy will be examined.

Gothic Literature: Monster Stories— also available in vCourses

From vampires to ghosts, these frightening stories have influenced fiction writers since the 18th century. This course will focus on the major themes found in Gothic literature and demonstrate how the core writing drivers produce, for the reader, a thrilling psychological environment. Terror versus horror, the influence of the supernatural, and descriptions of the difference between good and evil are just a few of the themes presented. By the time students have completed this course, they will have gained an understanding of and an appreciation for the complex nature of dark fiction.

Great Minds in Science: Ideas for a New Generation— also available in vCourses

Is there life on other planets? What extremes can the human body endure? Can we solve the problem of global warming? Today, scientists, explorers, and writers are working to answer all of these questions. Like Edison, Einstein, Curie, and Newton, the scientists of today are asking questions and working on problems that may revolutionize our lives and world. This course focuses on 10 of today’s greatest scientific minds. Each unit takes an in-depth look at one of these individuals, and shows how their ideas may help to shape tomorrow’s world.

Health – also available in vCourses

Unit 1: Personal Health, Nutrition, and Fitness

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<tr>
<th>Day</th>
<th>Activity/ PLATO Objective</th>
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<tbody>
<tr>
<td>1</td>
<td>Pretest—Unit 1</td>
<td>Online</td>
</tr>
<tr>
<td>2</td>
<td>Your Lifestyle and Your Health PLATO Objective: Characterize behaviors and lifestyle choices that enhance or hinder your health.</td>
<td>Tutorial</td>
</tr>
<tr>
<td>3</td>
<td>Your Lifestyle and Your Health, continued</td>
<td>Tutorial</td>
</tr>
<tr>
<td>4</td>
<td>Your Role in Maintaining Your Health PLATO Objective: Describe your personal role in maintaining health throughout your life.</td>
<td>Exploration</td>
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<tr>
<td>5</td>
<td>Your Role in Maintaining Your Health, continued</td>
<td>Exploration</td>
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<th>Day</th>
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<tbody>
<tr>
<td>1</td>
<td>Guidelines for a Healthy Diet PLATO Objective: Identify characteristics of the MyPlate Food Guidance System.</td>
<td>Tutorial</td>
</tr>
<tr>
<td>2</td>
<td>Guidelines for a Healthy Diet, continued</td>
<td>Tutorial</td>
</tr>
<tr>
<td>3</td>
<td>Dietary Guidelines and Nutritional Facts PLATO Objective: Describe the relationship between dietary guidelines, food groups, nutrients, and serving sizes, and interpret nutrition facts labels.</td>
<td>Tutorial</td>
</tr>
<tr>
<td>4</td>
<td>Dietary Guidelines and Nutritional Facts, continued</td>
<td>Tutorial</td>
</tr>
<tr>
<td>5</td>
<td>Nutrition and Chronic Diseases PLATO Objective: Identify the relationship between nutrition and chronic diseases such as heart disease, obesity, cancer, diabetes, hypertension, and osteoporosis.</td>
<td>Tutorial</td>
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</table>
### Unit 1: Personal Health, Nutrition, and Fitness—Week 3

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<thead>
<tr>
<th>Day</th>
<th>Activity/ PLATO Objective</th>
<th>Type</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Nutrition and Chronic Diseases, continued</td>
<td>Tutorial</td>
</tr>
<tr>
<td>2</td>
<td>Individual Caloric and Nutritional Needs</td>
<td>Exploration</td>
</tr>
<tr>
<td></td>
<td>PLATO Objective: Compare and contrast caloric and nutritional needs for people of different genders, activity levels, and stages of life, and describe the effects of too many or too few calories in a diet.</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Individual Caloric and Nutritional Needs, continued</td>
<td>Exploration</td>
</tr>
<tr>
<td>4</td>
<td>Benefits of Physical Activity</td>
<td>Tutorial</td>
</tr>
<tr>
<td></td>
<td>PLATO Objective: Describe the benefits of physical activity, including strength, endurance, and flexibility exercises.</td>
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<tr>
<td>5</td>
<td>Benefits of Physical Activity, continued</td>
<td>Tutorial</td>
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</table>

### Unit 1: Personal Health, Nutrition, and Fitness—Week 4

<table>
<thead>
<tr>
<th>Day</th>
<th>Activity/ PLATO Objective</th>
<th>Type</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Sedentary Lifestyle and Chronic Diseases</td>
<td>Tutorial</td>
</tr>
<tr>
<td></td>
<td>PLATO Objective: Explain the relationship between a sedentary lifestyle and chronic diseases such as high cholesterol, high blood pressure, cardiovascular disease, and type 2 diabetes.</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Sedentary Lifestyle and Chronic Diseases, continued</td>
<td>Tutorial</td>
</tr>
<tr>
<td>3</td>
<td>Posttest—Unit 1</td>
<td>Online</td>
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</tbody>
</table>

### Unit 2: Preventing Disease and Injury

#### Unit 2: Preventing Disease and Injury—Week 4

<table>
<thead>
<tr>
<th>Day</th>
<th>Activity/ PLATO Objective</th>
<th>Type</th>
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</thead>
<tbody>
<tr>
<td>4</td>
<td>Pretest—Unit 2</td>
<td>Online</td>
</tr>
<tr>
<td>5</td>
<td>Immunity and Preventing Disease</td>
<td>Courseware</td>
</tr>
<tr>
<td></td>
<td>PLATO Objective: Investigate the causes and symptoms of communicable and non-communicable diseases, including the identification of pathogens that cause them, and identify means of treating and preventing them.</td>
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</table>

#### Unit 2: Preventing Disease and Injury—Week 5

<table>
<thead>
<tr>
<th>Day</th>
<th>Activity/ PLATO Objective</th>
<th>Type</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Immunity and Preventing Disease, continued</td>
<td>Courseware</td>
</tr>
<tr>
<td>2</td>
<td>Immunity and Preventing Disease, continued</td>
<td>Courseware</td>
</tr>
<tr>
<td>3</td>
<td>Immunity and Preventing Disease, continued</td>
<td>Courseware</td>
</tr>
<tr>
<td>4</td>
<td>Lifesaving and Emergency Care Procedures</td>
<td>Tutorial</td>
</tr>
<tr>
<td></td>
<td>PLATO Objective: Describe procedures for emergency care and lifesaving.</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Lifesaving and Emergency Care Procedures, continued</td>
<td>Tutorial</td>
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</tbody>
</table>

#### Unit 2: Preventing Disease and Injury—Week 6

<table>
<thead>
<tr>
<th>Day</th>
<th>Activity/ PLATO Objective</th>
<th>Type</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Strategies for Preventing Accidents</td>
<td>Exploration</td>
</tr>
</tbody>
</table>
PLATO Objective: Develop a list of accident-prevention strategies for a variety of circumstances, including sports, social events, and motor vehicle-related situations.

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<thead>
<tr>
<th>Day</th>
<th>Activity/ PLATO Objective</th>
<th>Type</th>
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</thead>
<tbody>
<tr>
<td>2</td>
<td>Strategies for Preventing Accidents, continued</td>
<td>Exploration</td>
</tr>
<tr>
<td>3</td>
<td>Posttest—Unit 2</td>
<td>Online</td>
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</tbody>
</table>

### Unit 3: Growth, Development, and Sexuality

#### Unit 3: Growth, Development, and Sexuality — Week 6

<table>
<thead>
<tr>
<th>Day</th>
<th>Activity/ PLATO Objective</th>
<th>Type</th>
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</thead>
<tbody>
<tr>
<td>4</td>
<td>Pretest—Unit 3</td>
<td>Online</td>
</tr>
<tr>
<td>5</td>
<td>Human Reproduction and Development PLATO Objective: Describe the growth and development of human cells, the process of reproduction, and the stages of development from conception to adulthood.</td>
<td>Courseware</td>
</tr>
</tbody>
</table>

#### Unit 3: Growth, Development, and Sexuality — Week 7

<table>
<thead>
<tr>
<th>Day</th>
<th>Activity/ PLATO Objective</th>
<th>Type</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Human Reproduction and Development, continued</td>
<td>Courseware</td>
</tr>
<tr>
<td>2</td>
<td>Human Reproduction and Development, continued</td>
<td>Courseware</td>
</tr>
<tr>
<td>3</td>
<td>Human Reproduction and Development, continued</td>
<td>Courseware</td>
</tr>
<tr>
<td>4</td>
<td>Benefits of Healthy Sexual Practices PLATO Objective: Evaluate the physical, emotional, and social benefits of healthy sexual practices, including abstinence.</td>
<td>Exploration</td>
</tr>
<tr>
<td>5</td>
<td>Benefits of Healthy Sexual Practices, continued</td>
<td>Exploration</td>
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</tbody>
</table>

### Unit 4: Substance Abuse

#### Unit 4: Substance Abuse — Week 9

<table>
<thead>
<tr>
<th>Day</th>
<th>Activity/ PLATO Objective</th>
<th>Type</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Pretest—Unit 4</td>
<td>Online</td>
</tr>
<tr>
<td>2</td>
<td>Health Effects of Using Alcohol, Tobacco, and Other Drugs PLATO Objective: Explain the impact of alcohol, tobacco, and other drug use on one's behavior, brain chemistry, and ability to function.</td>
<td>Exploration</td>
</tr>
<tr>
<td>3</td>
<td>Health Effects of Using Alcohol, Tobacco, and Other Drugs, continued</td>
<td>Exploration</td>
</tr>
<tr>
<td>4</td>
<td>Harmful Effects of Dietary Supplements and Anabolic Steroids PLATO Objective: Analyze the harmful effects of using dietary supplements and anabolic steroids.</td>
<td>Tutorial</td>
</tr>
<tr>
<td>5</td>
<td>Effects of Medicines and Illegal Substances PLATO Objective: Describe the benefits of medicines and the risks involved in the misuse and abuse of legal and illegal drugs.</td>
<td>Tutorial</td>
</tr>
</tbody>
</table>

#### Unit 4: Substance Abuse — Week 10

<table>
<thead>
<tr>
<th>Day</th>
<th>Activity/ PLATO Objective</th>
<th>Type</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>Effects of Medicines and Illegal Substances, continued</td>
<td>Tutorial</td>
</tr>
<tr>
<td>2</td>
<td>Peer Pressure and Substance Abuse PLATO Objective: Evaluate the effect that peer pressure has on teenagers with regard to substance abuse.</td>
<td>Exploration</td>
</tr>
</tbody>
</table>
Peer Pressure and Substance Abuse, continued

Sources of Help for Substance Abuse
PLATO Objective: Identify sources of help for substance abuse.

Sources of Help for Substance Abuse, continued

 Exploration

Unit 4: Substance Abuse—Week 11

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<tr>
<th>Day</th>
<th>Activity/ PLATO Objective</th>
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<tbody>
<tr>
<td>1</td>
<td>Posttest—Unit 4</td>
<td>Online</td>
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</table>

Unit 5: Mental Health and Community Health Issues

Unit 5: Mental Health and Community Health Issues—Week 11

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<tr>
<th>Day</th>
<th>Activity/ PLATO Objective</th>
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<tbody>
<tr>
<td>2</td>
<td>Pretest—Unit 5</td>
<td>Online</td>
</tr>
<tr>
<td>3</td>
<td>Stress and Health</td>
<td>Tutorial</td>
</tr>
<tr>
<td></td>
<td>PLATO Objective: Weigh the importance of managing stress to maintain health.</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Depression</td>
<td>Tutorial</td>
</tr>
<tr>
<td></td>
<td>PLATO Objective: Outline the definition, causes, and management of depression.</td>
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<tr>
<td>5</td>
<td>Depression, continued</td>
<td>Tutorial</td>
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</tbody>
</table>

Unit 5: Mental Health and Community Health Issues—Week 12

<table>
<thead>
<tr>
<th>Day</th>
<th>Activity/ PLATO Objective</th>
<th>Type</th>
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<tbody>
<tr>
<td>1</td>
<td>Mental and Emotional Health Issues</td>
<td>Tutorial</td>
</tr>
<tr>
<td></td>
<td>PLATO Objective: Identify types of mental and emotional health issues.</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Mental and Emotional Health Issues, continued</td>
<td>Tutorial</td>
</tr>
</tbody>
</table>

International Business – also available in vCourses

Unit 1: Introduction to Global Commerce

Many of us think of McDonald’s restaurant as synonymous with America. In fact, McDonald’s are all over the world, and some of their menu items even reflect the cuisine of the country they are in. In Italian McDonald’s, for example, they serve gelato, and in Russia they serve Bolshoi Macs. Altering their menu is one way that McDonald’s succeeds in overseas markets. This unit introduces you to some of global business’s most important topics. We will discuss globalization and describe its influence on markets and production and the forces behind its growth.

Unit II: International Finance

Many of us think of McDonald’s restaurant as synonymous with America. In fact, McDonald’s are all over the world, and some of their menu items even reflect the cuisine of the country they are in. In Italian McDonald’s, for example, they serve gelato, and in Russia they serve Bolshoi Macs. Altering their menu is one way that McDonald’s succeeds in overseas markets. This unit introduces you to some of global business’s most important topics. We will discuss globalization and describe its influence on markets and production and the forces behind its growth.

International Business: Global Commerce in the 21st Century – also available in vCourses

From geography to culture Global Business is an exciting topic in the business community today. This course is designed to help students develop the appreciation, knowledge, skills, and abilities needed to live and work in a global marketplace. It takes a global view on business, investigating why and how companies go international and are more interconnected.
The course further provides students a conceptual tool by which to understand how economic, social, cultural, political and legal factors influence both domestic and cross-border business. Business structures, global entrepreneurship, business management, marketing, and the challenges of managing international organizations will all be explored in this course. Students will cultivate a mindfulness of how history, geography, language, cultural studies, research skills, and continuing education are important in both business activities and the 21st century.

**Introduction to Philosophy: The Big Picture— also available in vCourses**

This course will take you on an exciting adventure that covers more than 2,500 years of history! Along the way, you’ll run into some very strange characters. For example, you’ll read about a man who hung out on street corners, barefoot and dirty, pestering everyone he met with questions. You’ll learn about another eccentric who climbed inside a stove to think about whether he existed. Despite their odd behavior, these and other philosophers of the Western world are among the most brilliant and influential thinkers of all time. As you learn about these great thinkers, you’ll come to see how and where many of the most fundamental ideas of Western Civilization originated. You’ll also get a chance to ask yourself some of the same questions these great thinkers pondered. By the time you’ve “closed the book” on this course, you will better understand yourself and the world around you…from atoms to outer space…and everything in between.

**Law & Order: Introduction to Legal Studies— also available in vCourses**

Every society has laws that its citizens must follow. From traffic laws to regulations on how the government operates, laws help provide society with order and structure. Our lives are guided and regulated by our society’s legal expectations. Consumer laws help protect us from faulty goods; criminal laws help to protect society from individuals who harm others; and family law handles the arrangements and issues that arise in areas like divorce and child custody. This course focuses on the creation and application of laws in various areas of society. By understanding the workings of our court system, as well as how laws are actually carried out, we become more informed and responsible citizens in our communities and of our nation.

**Music Appreciation: The Enjoyment of Listening— also available in vCourses**

Music is part of everyday lives and reflects the spirit of our human condition. To know and understand music, we distinguish and identify cultures on local and global levels. This course will provide students with an aesthetic and historical perspective of music, covering a variety of styles and developments from the Middle Ages through the Twentieth First Century. Students will acquire basic knowledge and listening skills, making future music experiences more informed and satisfying.

**Personal & Family Finance— also available in vCourses**

How do our personal financial habits affect our financial future? How can we make smart decisions with our money in the areas of saving, spending, and investing? This course introduces students to basic financial habits such as setting financial goals, budgeting, and creating financial plans. Students will learn more about topics such as taxation, financial institutions, credit, and money management. The course also addresses how occupations and educational choices can influence personal financial planning, and how individuals can protect themselves from identity theft.

**Personal Psychology I: The Road to Self-Discovery— also available in vCourses**

Self-knowledge is the key to self-improvement! More than 800,000 high school students take psychology classes each year. Among the different reasons, there is usually the common theme of self discovery! Sample topics include the study of infancy, childhood, adolescence, perception and states of consciousness. Amazing online psychology experiments dealing with our own personal behavior are featured within this course.
Personal Psychology II: Living in a Complex World—also available in vCourses

Enrich the quality of your life by learning to understand the actions of others! Topics include the study of memory, intelligence, emotion, health, stress and personality. This course features exciting online psychology experiments involving the world around us.

Physical Education—also available in vCourses

Unit 1: Getting Active

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<th>Day</th>
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<tbody>
<tr>
<td>1</td>
<td>Pretest—Unit 1</td>
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</table>
| 2–7 | Introduction to Physical Education  
PLATO Objective: Study the benefits of physical fitness and leading an active lifestyle. | Lesson |
| 8–13| Safety and Injury Prevention  
PLATO Objective: Examine the types of injuries associated with regular exercise and how to prevent them. | Lesson |
| 14–19| Introduction to Sports  
PLATO Objective: Study the rules of basic game play and discover the health benefits derived from participation in sports. | Lesson |
| 20–25| Basics of Physical Activity and Exercise  
PLATO Objective: Analyze types of physical activity in terms of their contribution to fitness, health, and wellness. | Lesson |
| 26–30| Unit Activity—Unit 1 | Unit Activity |
| 31  | Posttest—Unit 1             | Assessment |

Unit 2: Improving Performance

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<tr>
<th>Day</th>
<th>Activity / PLATO Objective</th>
<th>Type</th>
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| 33–38| Cardiorespiratory Fitness and Endurance  
PLATO Objective: Study the importance of cardiorespiratory fitness and cardiorespiratory endurance to overall health and wellness. | Lesson |
| 39–44| Muscular Strength and Endurance  
PLATO Objective: Study the importance of muscular fitness and muscular endurance to overall health and wellness. | Lesson |
| 45–50| Flexibility  
PLATO Objective: Explain flexibility and summarize different methods to measure and improve it. | Lesson |
| 51–56| Biomechanics and Movement  
PLATO Objective: Identify and describe the basic principles of biomechanics. | Lesson |
| 57–61| Unit Activity—Unit 2 | Unit Activity |
| 62  | Posttest—Unit 2             | Assessment |

Unit 3: Lifestyle
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<td>Lifestyle Fitness</td>
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<td>64–69</td>
<td>PLATO Objective: Evaluate influences that can affect physical activity and lifelong exercise preferences.</td>
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<td>70–75</td>
<td>Designing a Personal Fitness Program</td>
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<td>PLATO Objective: Design a personal fitness program using the FITT principle.</td>
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<td>Effects of Media and Culture</td>
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<td>84–88</td>
<td>PLATO Objective: Explore the impact of cultural and media perceptions on physical activity and identify career opportunities in sports, fitness, and health care.</td>
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<td>90</td>
<td>PLATO Objective: Describe the development of sports and summarize the impact of globalization and technology on the sports industry.</td>
<td></td>
</tr>
</tbody>
</table>

### Principles of Architecture and Construction
This interactive course empowers students with the knowledge to appreciate and evaluate career opportunities in architecture and construction. With an emphasis on developing critical thinking skills, this one-semester course includes a variety of activities as students learn about structures and loads, materials and costs, urban design, and other aspects of these fascinating career opportunities. This easy-to-manage course will help build a solid foundation for their career options.

### Principle of Arts, Audio/Visual Technology, and Communications
This course appeals to your students’ familiarity with a variety of sensory inputs and stimulus. With an emphasis on visual arts, the 14 lessons introduce learners to careers in design, photography, performing arts, fashion, and journalism, among others. This engaging course covers inherently engaging topics that will stimulate your students as they consider careers in which the arts, technology, and communications intersect.

### Principles of Engineering and Technology
This easy-to-manage course provides students with essential STEM knowledge and an effective overview of STEM careers. The course’s 15 lessons are interspersed with activities and online discussions that engage learners and promote understanding and achievement. Topics covered include biotechnology, mechanics, and fluid and thermal systems. The concluding lesson provides a valuable overview of the overall engineering design process.

### Principles of Finance
Financial literacy is an increasingly essential capability as students prepare for the workforce, and this 18-lesson course provides the information they need to determine if a career in finance is right for them. The course uses games and online discussions to effectively facilitate learning, while introducing your learners to a variety of topics, including investment strategies, money management, asset valuation, and personal finance.

### Principles of Health Science
With an engaging and interactive instructional approach, this rigorous course provides your students with a comprehensive overview of health science topics and careers. Health science professionals are in increasing demand and of increasing interest, and this semester-long course is an effective way to introduce students to the wide array of health science careers. Beginning with medical terminology, the course includes an overview of physiology and human homeostasis and more.
Principles of Information Technology – 1A
This course develops practical skills in the ever-expanding IT industry. The course includes lessons that cover the increasingly relevant and important areas of privacy and data security, as well as addressing some essential skills such as word processing and spreadsheet software, and then advancing to cutting edge networking and database software concepts.

Principles of Law, Public Safety, Corrections, and Security
For many reasons, high school students are drawn to learning about the careers addressed in this course. This one-semester course includes 15 lessons that help students learn about careers that make a powerful impact in all of our lives. From criminal law to every phase of the trial process, the course moves on to include lessons on the correctional system and the implications of legal ethics and the constitution.

Real World Parenting– also available in vCourses
What is the best way to care for children and teach them self-confidence and a sense of responsibility? Parenting involves more than having a child and providing food and shelter. Learn what to prepare for, what to expect, and what vital steps parents can take to create the best environment for their children. Parenting roles and responsibilities, nurturing and protective environments for children, positive parenting strategies, and effective communication in parent/child relationships are some of the topics covered in this course.

Social Problems I: A World in Crisis– also available in vCourses
Students will become aware of the challenges faced by social groups, as well as learn about the complex relationship among societies, governments and the individual. Each unit is focused on a particular area of concern, often within a global context. Possible solutions at both the structural level as well as that of the individual will be examined. Students will not only learn more about how social problems affect them personally, but begin to develop the skills necessary to help make a difference in their own lives and communities, not to mention globally.

Social Problems II: Conflicts, Crisis, & Challenges– also available in vCourses
The Social Problems I course continues to examine timely social issues affecting individuals and societies around the globe. Students learn about the overall structure of the social problem as well as how it impacts their lives. Each unit focuses on a particular social problem, including racial discrimination, drug abuse, the loss of community, and urban sprawl, and discusses possible solutions at both individual and structural levels. For each issue, students examine the connections in the global arena involving societies, governments and the individual.

Sociology I: The Study of Human Relationships– also available in vCourses
The world is becoming more complex. How do your beliefs, values and behavior affect the people around you and the world in which we live? Students will examine social problems in our increasingly connected world, and learn how human relationships can strongly influence and impact their lives. Exciting online video journeys to an array of areas in the sociological world are an important component of this relevant and engaging course.

Sociology II: Your Social Life– also available in vCourses
Sociology is the study of people, social life and society. By developing a “sociological imagination” students will be able to examine how society itself shapes human action and beliefs…and how in turn these factors re-shape society itself! Fascinating online videos journeys will not only inform students, but motivate them to still seek more knowledge on their own.
Veterinary Science: The Care of Animals— also available in vCourses
As animals play an increasingly important role in our lives, scientists have sought to learn more about their health and well-being. Taking a look at the pets that live in our homes, on our farms, and in zoos and wildlife sanctuaries, this course will examine some of the common diseases and treatments for domestic animals. Toxins, parasites, and infectious diseases impact not only the animals around us, but at times... we humans as well! Through veterinary medicine and science, the prevention and treatment of diseases and health issues is studied and applied.

World Religions: Exploring Diversity— also available in vCourses
Throughout the ages, religions from around the world have shaped the political, social, and cultural aspects of societies. This course focuses on the major religions that have played a role in human history, including Buddhism, Christianity, Confucianism, Hinduism, Islam, Judaism, Shintoism, and Taoism. Students will trace the major developments in these religions and explore their relationships with social institutions and culture. The course will also discuss some of the similarities and differences among the major religions and examine the connections and influences they have.
Global Languages

Chinese I – Semesters A and B
Students begin their introduction to Chinese with fundamental building blocks in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. The course consists of 180 lesson days formatted in an intuitive calendar view, which can be divided into two 90-day semesters. The course represents an ideal blend of language learning pedagogy and online learning. As students begin the course, they construct their own Avatar that accumulates “Avatar bucks”—by performing well on course tasks—to use to purchase materials (clothing, gadgets, scenery, etc.) at the “Avatar store”. Each week consists of an ongoing adventure story, a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, and multimedia cultural presentations covering major Chinese-speaking countries. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

Chinese II – Semesters A and B
Students continue their introduction to Chinese with fundamental building blocks in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. The course consists of 180 lesson days formatted in an intuitive calendar view, which can be divided into two 90-day semesters. The course represents an ideal blend of language learning pedagogy and online learning. As students begin the course, they construct their own Avatar that accumulates “Avatar bucks”—by performing well on course tasks—to use to purchase materials (clothing, gadgets, scenery, etc.) at the “Avatar store”. Each week consists of an ongoing adventure story, a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, and multimedia cultural presentations covering major Chinese-speaking countries. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

French I – Semesters A and B
Students begin their introduction to French with fundamental building blocks in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. The course consists of 180 lesson days formatted in an intuitive calendar view, which can be divided into two 90-day semesters. The course represents an ideal blend of language learning pedagogy and online learning. As students begin the course, they construct their own Avatar that accumulates “Avatar bucks”—by performing well on course tasks—to use to purchase materials (clothing, gadgets, scenery, etc.) at the “Avatar store”. Each week consists of an ongoing adventure story, a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, and multimedia cultural presentations covering major French-speaking areas across the globe. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

French II – Semesters A and B
Students continue their introduction to French with fundamental building blocks in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. The course consists of 180 lesson days formatted in an intuitive calendar view, which can be divided into two 90-day semesters and represents an ideal blend of language learning pedagogy and online learning. As students begin the course, they construct their own Avatar that accumulates “Avatar bucks”—by performing well on course tasks—to use to purchase materials (clothing, gadgets, scenery, etc.) at the “Avatar store”. Each week consists of an ongoing adventure story, a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, and multimedia cultural presentations covering major French-speaking areas across the globe, and assessments.
The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

**French III – Semesters A and B**

In this expanding engagement with French, students deepen their focus on four key skills in foreign language acquisition: listening comprehension, speaking, reading, and writing. In addition, students read significant works of literature in French, and respond orally or in writing to these works. The course consists of 180 lesson days formatted in an intuitive calendar view, which can be divided into two 90-day semesters and represents an ideal blend of language learning pedagogy and online learning. As students begin the course, they construct their own Avatar that accumulates “Avatar bucks”—by performing well on course tasks—to use to purchase items (virtual clothing, gadgets, scenery, etc.) at the “Avatar store”. Continuing the pattern, and building on what students encountered in the first two years, each week consists of a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, and multimedia cultural presentations covering major French-speaking areas in Europe and the Americas. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

**Advanced French – AP* Edition**

The majority of the course is conducted almost entirely in French. The tips and grammar tutorials are a mix of French and English to aid in the student’s comprehension of the material since this is an online course. The course is divided into eight units. Each semester includes four content units. The last unit of the second semester is a review specifically for the AP Exam. Each unit is based on an overall theme and highlights a specific country or region of the French world. Each unit is divided into three lessons and a unit wrap-up. Each lesson contains approximately twelve to fifteen activities. Although this course is completely online, you will have a teacher who will be available to answer any questions you might have regarding the course and the content. The teacher will also be correcting your assignments and any audio or essay submissions.

**German I – Semesters A and B**

Students begin their introduction to German with fundamental building blocks in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. The course consists of 180 lesson days formatted in an intuitive calendar view, which can be divided into two 90-day semesters and represents an ideal blend of language learning pedagogy and online learning. As students begin the course, they construct their own Avatar that accumulates “Avatar bucks”—by performing well on course tasks—to use to purchase materials (clothing, gadgets, scenery, etc.) at the Avatar store. Each week consists of an ongoing adventure story, a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, cultural presentations covering major German-speaking areas in Europe. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

**German II – Semesters A and B**

Students continue their introduction to German with fundamental building blocks in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. The course consists of 180 lesson days formatted in an intuitive calendar view, which can be divided into two 90-day semesters and represents an ideal blend of language learning pedagogy and online learning. As students begin the course, they construct their own Avatar that accumulates “Avatar bucks”—by performing well on course tasks—to use to purchase materials (clothing, gadgets, scenery, etc.) at the “Avatar store”. Each week consists of an ongoing adventure story, a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, cultural presentations covering major German-speaking areas in Europe. The course has been
Latin I – Semesters A and B
Students begin their introduction to Latin with fundamental building blocks in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. The course consists of 180 lesson days formatted in an intuitive calendar view, which can be divided into two 90-day semesters and represents an ideal blend of language learning pedagogy and online learning. As students begin the course, they construct their own Avatar that accumulates “Avatar bucks” by performing well on course tasks—to use to purchase items (virtual clothing, gadgets, scenery, etc.) at the Avatar store. Each week consists of a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, and cultural presentations covering significant aspects of Roman culture or their modern-day manifestations, and assessments. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

Latin II – Semesters A and B
Students continue their introduction to Latin with fundamental building blocks in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. The course consists of 180 lesson days formatted in an intuitive calendar view, which can be divided into two 90-day semesters and represents an ideal blend of language learning pedagogy and online learning. As students begin the course, they construct their own Avatar that accumulates “Avatar bucks” by performing well on course tasks—to use to purchase items (virtual clothing, gadgets, scenery, etc.) at the Avatar store. Each week consists of an ongoing adventure story, a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, and multimedia cultural presentations covering major Spanish-speaking areas in Europe and the Americas. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

Spanish I – Semesters A and B
Students begin their introduction to Spanish with fundamental building blocks in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. The course consists of 180 lesson days formatted in an intuitive calendar view, which can be divided into two 90-day semesters and represents an ideal blend of language learning pedagogy and online learning. As students begin the course, they construct their own Avatar that accumulates “Avatar bucks” by performing well on course tasks—to use to purchase materials (clothing, gadgets, scenery, etc.) at the Avatar store. Each week consists of an ongoing adventure story, a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, and multimedia cultural presentations covering major Spanish-speaking areas in Europe and the Americas. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

Spanish II – Semesters A and B
Students continue their introduction to Spanish with fundamental building blocks in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. The course consists of 180 lesson days formatted in an intuitive calendar view, which can be divided into two 90-day semesters and represents an ideal blend of language learning pedagogy and online learning. The course exemplifies a marriage of the best in language learning pedagogy and online learning. As students begin the course, they construct their own Avatar that accumulates “Avatar bucks”—by performing well on course tasks—to use to purchase materials (clothing, gadgets, scenery, etc.) at the “Avatar store”. Each week consists of an ongoing
adventure story, a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, cultural presentations covering major Spanish-speaking areas in Europe and the Americas, and assessments. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

Spanish III – Semesters A and B

In this expanding engagement with Spanish, students deepen their focus on four key skills in foreign language acquisition: listening comprehension, speaking, reading, and writing. In addition, students read significant works of literature in Spanish, and respond orally or in writing to these works. The course consists of 180 lesson days formatted in an intuitive calendar view, which can be divided into two 90-day semesters and represents an ideal blend of language learning pedagogy and online learning. As students begin the course, they construct their own Avatar that accumulates Avatar bucks by performing well on course tasks, to use to purchase items (virtual clothing, gadgets, scenery, etc.) at the Avatar store. Continuing the pattern, and building on what students encountered in the first two years, each week consists of a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, and multimedia cultural presentations covering major Spanish-speaking areas in Europe and the Americas. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

Advanced Spanish – AP* Edition

The majority of the course is conducted almost entirely in Spanish. The tips and grammar tutorials are a mix of Spanish and English to aid in the student’s comprehension of the material since this is an online course. The course is divided into ten units. Each semester includes four content units and one semester review and test. The last unit of the second semester is a review specifically for the AP Exam. Each unit is based on an overall theme, and highlights a specific country or region of the Hispanic world. Each unit is divided into three lessons and a unit wrap-up. Each lesson contains approximately ten to twelve activities. Although this course is completely online, you will have a teacher who will be available to answer any questions you might have regarding the course and the content. The teacher will also be correcting your assignments and any audio or essay submissions.
Beyond High School

Accuplacer - Math
  Unit 1: Arithmetic – Whole Numbers
  Unit 2: Arithmetic – Fractions and Decimals
  Unit 3: Elementary Algebra, Part 1
  Unit 4: Elementary Algebra, Part 2
  Unit 5: College Level Math

Accuplacer - Reading
  Unit 1: Structure and Tone
  Unit 2: Comprehension and Vocabulary

Accuplacer – Sentence Skills
  Unit 1: Structure and Tone
  Unit 2: Form and Grammar

ACT English
  Unit 1: Punctuation
  Unit 2: Basic Grammar and Usage
  Unit 3: Sentence Structure
  Unit 4: Rhetorical Skills

ACT Mathematics
  Unit 1: Pre-Algebra 1
  Unit 2: Pre-Algebra 2
  Unit 3: Algebra 1
  Unit 4: Algebra 2
  Unit 5: Coordinate Geometry
  Unit 6: Plan Geometry
  Unit 7: Trigonometry

ACT Reading
  Unit 1: General Reading Strategies
  Unit 2: Reading Literature
  Unit 3: Reading the Social Sciences
  Unit 4: Reading Science

ACT Science Reasoning
  Unit 1: Biology
  Unit 2: Reading Literature
  Unit 3: Reading the Social Sciences
Unit 4: Reading Science, Charting and Graphing

ACT WorkKeys
Unit 1: Reading for Information
Unit 2: Applied Mathematics
Unit 3: Intermediate Computation with Decimals, Fractions and Percents
Unit 4: Geometry and Decimals, Fractions and Percents
Unit 5: Algebraic Concepts
Unit 6: Business Writing
Unit 7: Writing
Unit 8: Locating Information
Unit 9: Teamwork
Unit 10: Listening
Unit 11: Applied Technology

ASVAB Mathematics
Unit 1: Numerical Operations and Mathematics Knowledge, Part 1
Unit 2: Numerical Operations and Mathematics Knowledge, Part 2
Unit 3: Geometry and Measurement, Part 1
Unit 4: Geometry and Measurement, Part 2
Unit 5: Data Analysis, Statistics & Probability and Problem Solving

ASVAB Technology and General Science, Part 1
Unit 1: Technology
Unit 2: Biology, Part 1
Unit 3: Biology, Part 2
Unit 4: Life Science, Part 1
Unit 5: Life Science, Part 2

ASVAB Technology and General Science, Part 2
Unit 1: Chemistry, Part 1
Unit 2: Chemistry, Part 2
Unit 3: Physical Science, Part 1
Unit 4: Physical Science, Part 2
Unit 5: Earth and Space Science

ASVAB Word Knowledge and Paragraph Comprehension
Unit 1: Reading Skills Strategies
Unit 2: Reading for Information

Career Readiness Certificate - Bronze
Unit 1: Reading Skills and Strategies
Unit 2: Reading for Information, Part 2
Unit 3: Applied Mathematics
Unit 4: Intermediate Computation with Decimals, Fractions and Percents
Unit 5: Measurement and Locating Information

Career Readiness Certificate - Silver
Unit 1: Reading Skills and Strategies
Unit 2: Reading Business Letters, References and Technical Materials
Unit 3: Applied Mathematics
Unit 4: Intermediate Computation with Decimals, Fractions and Percents
Unit 5: Probability, Algebraic Concepts and Reading Graphical Data

Career Readiness Certificate - Gold
Unit 1: Reading Skills and Strategies
Unit 2: Reading for Information
Unit 3: Applied Mathematics
Unit 4: Decimals, Fractions and Percents
Unit 5: Geometry and Measurement
Unit 6: Intermediate Computation with Decimals, Fractions and Percents
Unit 7: Data Analysis, Statistics and Probability, and Problem Solving
Unit 8: Algebraic Concept
Unit 9: Locating Information

Compass - Mathematics
Unit 1: Numerical Skills
Unit 2: Pre-Algebra
Unit 3: Algebra
Unit 4: College Algebra
Unit 5: Geometry – Angles, Rectangles, and Triangles
Unit 6: Geometry and Trigonometry

Compass - Reading
Unit 1: Compass Reading
Unit 2: Practical Reading

Compass - Writing
Unit 1: Punctuation
Unit 2: Basic Grammar Usage
Unit 3: Sentence Structure
Unit 4: Rhetorical Skills, Organization and Style

GED - Mathematics
Unit 1: Number, Number Sense and Operation  
Unit 2: Measurement and Geometry  
Unit 3: Data, Statistics and Probability  
Unit 4: Algebra, Functions and Patterns  

GED - Reading  
Unit 1: Literary Text  
Unit 2: Nonfiction Prose  

GED – Science, Part 1  
Unit 1: Physical Science, Part 1  
Unit 2: Physical Science, Part 2  
Unit 3: Earth Science  

GED – Science, Part 2  
Unit 1: Life Science  
Unit 2: Applies to All Science Disciplines  

GED – Social Studies – Geography and World History  
Unit 1: Geography  
Unit 2: World History  

GED – US History, Civics and Economics  
Unit 1: United States History, Part 1  
Unit 2: United States History, Part 2  
Unit 3: Civics and Government  
Unit 4: Economics  

GED - Writing  
Unit 1: Editing Section: Organization  
Unit 2: Editing Section: Sentence Structure  
Unit 3: Editing Section: Usage  
Unit 4: Editing Section: Mechanics and Essay Writing  

SAT I - Mathematics  
Unit 1: Number and Operations  
Unit 2: Geometry and Measurement  
Unit 3: Data Analysis, Statistics and Probability  
Unit 4: Algebraic Functions, Part 1  
Unit 5: Algebraic Functions, Part 2  

SAT I – Language Arts
Unit 1: Critical Reading
Unit 2: Writing
Post-Secondary Courses

Developmental Math 1, Pre-Algebra

Unit 1: Whole Numbers
This unit covers approximately five weeks of instruction. In this unit, students will perform the four operations (addition, subtraction, multiplication, and division) on whole numbers. They will explore the properties of whole numbers and working with the commutative, associative, and distributive properties. They will also solve problems involving whole numbers and the operations.

Unit 2: Proportional Reasoning II
This unit covers approximately three weeks of instruction. In this unit, students will perform the four basic operations on fractions, as well as find the factors, prime factors, and greatest common factors of numbers in order to perform those operations. Students will also perform the four basic operations on decimal numbers and will solve problems with decimal numbers.

Unit 3: Signed Numbers and Interpreting Data
This unit covers approximately three and a half weeks of instruction. Students will then explore ratios and proportions, find proportions, and work with scaling and proportion. The unit allows students to calculate percents (i.e., finding the percent of a whole or decimal number), find percent increases and decreases, solve problems with percents, and use mental math with fractions and percents.

Unit 4: Real Numbers
This unit covers approximately two weeks of instruction. In this unit, students explore the basic concepts of integers, including addition, subtraction, multiplication, and division.

Unit 5: Solving Linear Equations and Inequalities
This unit covers approximately three weeks of instruction. In this unit, students will explore the basic concepts of real numbers, including sets, as well as their intersections and unions. They will also review simplifying fractions, factors, and multiples.

Unit 6: Introduction to Graphing
This unit covers approximately three weeks of instruction. In this unit, students use the order of operations to evaluate expressions, perform operations on monomials and binomials, solve linear equations and inequalities, and graph linear equations.

Unit 7: Exponents and Polynomials
This unit covers approximately 1 ½ weeks of instruction. In this unit, students will explore slopes and y-intercepts and graph ordered pairs. They also explore the Pythagorean Theorem and equations of circle.

Developmental Math 2, Beginning Algebra

Unit 1: Essentials – Preparing for Algebra
This unit covers approximately two weeks of instruction. In this unit, students will review the concepts of fractions in preparation for understanding more advanced algebra topics in this course.

Unit 2: Real Numbers
This unit covers approximately three weeks of instruction. In this unit, students will explore the basic concepts of real numbers, including sets, as well as their intersections and unions. They will also review simplifying fractions, factors, and multiples.

Unit 3: Solving Linear Equations and Inequalities
This unit covers approximately three weeks of instruction. Students will find the sum and differences of monomials and binomials, and students will solve problems with linear equations, functions, and inequalities.

Unit 4: Introduction to Graphing
This unit covers approximately two weeks of instruction. In this unit, students will be provided an introduction to graphing in the coordinate plane.

**Unit 5: Graphing Linear Equations and Inequalities**

This unit covers approximately two and a half weeks of instruction. In this unit, students will describe solutions to linear equations; find (and compare) the slope, as well as identify the y-intercept of a line; and write the linear equation in a variety of forms.

**Unit 6: Solving Linear Systems**

This unit covers approximately one week of instruction. In this unit, students will solve systems of equations by substitution, addition and graphing.

**Unit 7: Exponents and Polynomials**

This unit covers approximately two weeks of instruction. In this unit, students will find the products and quotients of monomials and polynomials, and they will explore integers, exponents and the power rule.

**Unit 8: Factoring**

This unit covers approximately one week of instruction. Students will factor monomials, polynomials and trinomials, including perfect square trinomials.

**Unit 9: Rational Expressions**

This unit covers approximately two weeks of instruction. Students will perform the four basic operations on rational expressions: addition, subtraction, multiplication and division. Students will also have the opportunity explore scientific notation.

**Developmental Math 3, Intermediate Algebra**

**Unit 1: Essentials of Algebra**

This unit covers approximately five weeks of instruction. In this unit, students will review polynomials and factoring. Students will also perform the 4 basic operations on rational expressions: add, subtract, multiply and divide.

**Unit 2: Rational Exponents & Radicals**

This unit covers approximately two weeks of instruction. In this unit, students will apply the rules for exponents (both positive and negative) and perform operations on radical expressions.

**Unit 3: Quadratic Equations**

This unit covers approximately three weeks of instruction. Students will solve quadratic equations in a variety of ways.

**Unit 4: Functions**

This unit covers approximately three weeks of instruction. In this unit, students will have the opportunity to review functions including but not limited to: direct, inverse and joint variation; piece-wise functions and joint functions.

**Unit 5: Exponential & Logarithmic Functions**

This unit covers approximately two of instruction. In this unit, students will have the opportunity to explore exponential and logarithmic functions by recognizing the properties and graphs and solving problems for each.

**Developmental Math 4 – Advanced Algebra**

**Unit 1: Essentials of Algebra**

This unit covers approximately five weeks of instruction. In this unit, students will have the opportunity to apply the rules for exponents when the exponents are rational numbers and manipulating rational expressions in a variety of ways. In this unit, they will also use interval notation to describe solution sets for equations with absolute values and inequalities.

**Unit 2: More Nonlinear Equations & Inequalities**
This unit covers approximately three and a half weeks of instruction. In this unit, students will explore nonlinear equations, inequalities, and their graphs.

**Unit 3: Functions**

This unit covers approximately three weeks of instruction. Students will be introduced to functions in this unit and will learn how to define and find the value of functions. This unit also includes lessons on graphing functions.

**Unit 4: Nonlinear Functions**

This unit covers approximately three weeks of instruction. In this unit, students will have the opportunity to explore exponential and logarithmic functions by recognizing the properties and graphs and solving problems for each.

**Unit 5: Induction, Sequences & Counting**

This unit covers approximately one week of instruction. Students will be introduced to sequences and will then proceed to a more advanced understanding of specific types of sequences and series, like arithmetic and geometric.

**Unit 6: Conic Sections**

This unit covers approximately one week of instruction. In this unit, students will learn and use the equations of a parabola, circles, ellipses and hyperbolas. This unit also includes graphing these types of equations.

**Unit 7: Trigonometry**

This unit covers approximately two weeks of instruction. In this unit, students will study the following trigonometry concepts – right angle and right triangle problems, sines and cosines, trigonometric equations, and trigonometric functions.

**Basic Reading Skills**

**Unit 1: Ready for College Reading**

This unit covers approximately one week of instruction. This unit helps learners review the types of skills needed for college level reading.

**Unit 2: Developing a College Vocabulary**

This unit covers approximately six weeks of instruction. This unit helps learners establish a good vocabulary and skills for deciphering unknown words while reading. Many of the lessons provide vocabulary building practice.

**Unit 3: Preparing to Read**

This unit covers approximately two weeks of instruction. In this unit, learners will focus on pre-reading strategies that improve reading comprehension in fiction and expository texts. Those strategies include asking questions prior to reading, using prior knowledge, and reading between the lines.

**Unit 4: Reading for Understanding**

This unit covers approximately five weeks of instruction. In this unit, learners will explore strategies that will improve their overall reading comprehension, including finding the main idea, locating supporting details, understanding organizational patterns like cause and effect or chronological order, and determining the implied meaning in texts.

**Unit 5: Engaging with Authors**

This unit covers approximately three weeks of instruction. In this unit, learners will explore the techniques that authors use to relay their message and explore the different reasons that authors write texts. Learners will also have the opportunity to practice identifying authors’ techniques in stories and expository texts.

**Unit 6: Beyond the Basics of Reading**

This unit covers approximately five weeks of instruction. In this unit, learners will go beyond the basic comprehension of text to understand that reading and writing are related and that improvement in one
can have a positive impact on the other. In addition, learners will explore how to improve their reading skills in the workplace.

Advanced Reading Skills

Unit 1: Mastering College Reading
This unit covers approximately five weeks of instruction. This unit gives learners the opportunity to strengthen strategies for reading, including strategies for test taking.

Unit 2: Expanding Your Vocabulary
This unit covers approximately three weeks of instruction. This unit helps learners expand their vocabulary and improve their skills for deciphering unknown words while reading.

Unit 3: Getting Ready to Read
This unit covers approximately two weeks of instruction. In this unit, learners will understand how prereading guides the reader through the reading process. Learners will also understand that active reading strategies can help the reader expand comprehension of more complex texts.

Unit 4: Engaging with Text
This unit covers approximately four weeks of instruction. In this unit, learners will understand that texts have main ideas, supporting details, and topics. Also, learners will be able to identify the main idea and supporting details in texts, as well as make inferences and improve reading comprehension.

Unit 5: Exploring Author’s Craft
This unit covers approximately three and a half weeks of instruction. In this unit, learners will understand that authors write for a variety of audiences and purposes. Learners will also explore the characteristics of different genres. Learners will identify figurative language and will critically read texts.

Unit 6: Becoming a Lifetime Reader
This unit covers approximately four weeks of instruction. In this unit, learners will go beyond the basic comprehension of text to understand that reading and writing are related and that improvement in one can have a positive impact on the other. In addition, learners will explore how to improve their reading skills in the workplace.

Basic Writing Skills

Unit 1: Sentence Basics
This unit covers approximately four and a half weeks of instruction. This unit helps learners review the concepts of sentence structure, sentence types and sentence combining, including how to fix common sentence grammar errors.

Unit 2: Verbs
This unit covers approximately four weeks of instruction. This unit helps learners use verbs correctly, including verb tenses, irregular verbs, and subject verb agreement.

Unit 3: Other Parts of Speech
This unit covers approximately six weeks of instruction. In this unit, learners will study nouns, pronouns, common pronoun problems (agreement and references), adjectives, adverbs, and modifiers (dangling and misplaced).

Unit 4: Punctuation
This unit covers approximately six weeks of instruction. In this unit, learners will explore punctuation concepts including end marks, capitalization, commas, semicolons, apostrophes, and quotation marks.

Unit 5: The Paragraph
This unit covers approximately three weeks of instruction. In this unit, learners will explore the basic structure of paragraphs, topic sentences, supporting sentences and concluding sentences.
Advanced Writing Skills

Unit 1: Grammar Review
This unit covers approximately three and a half week of instruction. This unit is a review of commonly found grammar errors.

Unit 2: Paragraphs: Prewriting
This unit covers approximately four weeks of instruction. In this unit, learners will identify effective prewriting strategies that will improve their overall essay writing.

Unit 3: Paragraphs: Drafting
This unit covers approximately two weeks of instruction. In this unit, learners will study how to develop a topic sentence, supporting sentences, cohesion and unity and improve overall writing style in paragraphs.

Unit 4: Paragraphs: Revising
This unit covers approximately two weeks of instruction. In this unit, learners will explore effective strategies for revising their writing.

Unit 5: Essays
This unit covers approximately four weeks of instruction. In this unit, learners will explore the basics of essay writing and will work to improve their thesis statements. Learners will also explore types of essays like compare/contrast, cause/effect, persuasive, and explanatory. The research process and essay are also included in this unit.

Accuplacer - Math

Unit 1: Arithmetic – Whole Numbers
Unit 2: Arithmetic – Fractions and Decimals
Unit 3: Elementary Algebra, Part 1
Unit 4: Elementary Algebra, Part 2
Unit 5: College Level Math

Accuplacer - Reading

Unit 1: Structure and Tone
Unit 2: Comprehension and Vocabulary

Accuplacer – Sentence Skills

Unit 1: Structure and Tone
Unit 2: Form and Grammar

ACT English

Unit 1: Punctuation
Unit 2: Basic Grammar and Usage
Unit 3: Sentence Structure
Unit 4: Rhetorical Skills

ACT Mathematics

Unit 1: Pre-Algebra 1
Unit 2: Pre-Algebra 2
Unit 3: Algebra 1
Unit 4: Algebra 2
Unit 5: Coordinate Geometry
Unit 6: Plan Geometry
Unit 7: Trigonometry

ACT Reading
Unit 1: General Reading Strategies
Unit 2: Reading Literature
Unit 3: Reading the Social Sciences
Unit 4: Reading Science

ACT Science Reasoning
Unit 1: Biology
Unit 2: Reading Literature
Unit 3: Reading the Social Sciences
Unit 4: Reading Science, Charting and Graphing

ACT WorkKeys
Unit 1: Reading for Information
Unit 2: Applied Mathematics
Unit 3: Intermediate Computation with Decimals, Fractions and Percents
Unit 4: Geometry and Decimals, Fractions and Percents
Unit 5: Algebraic Concepts
Unit 6: Business Writing
Unit 7: Writing
Unit 8: Locating Information
Unit 9: Teamwork
Unit 10: Listening
Unit 11: Applied Technology

ASVAB Mathematics
Unit 1: Numerical Operations and Mathematics Knowledge, Part 1
Unit 2: Numerical Operations and Mathematics Knowledge, Part 2
Unit 3: Geometry and Measurement, Part 1
Unit 4: Geometry and Measurement, Part 2
Unit 5: Data Analysis, Statistics & Probability and Problem Solving

ASVAB Technology and General Science, Part 1
Unit 1: Technology
Unit 2: Biology, Part 1
Unit 3: Biology, Part 2
Unit 4: Life Science, Part 1
Unit 5: Life Science, Part 2

ASVAB Technology and General Science, Part 2
Unit 1: Chemistry, Part 1
Unit 2: Chemistry, Part 2
Unit 3: Physical Science, Part 1
Unit 4: Physical Science, Part 2
Unit 5: Earth and Space Science

ASVAB Word Knowledge and Paragraph Comprehension
Unit 1: Reading Skills Strategies
Unit 2: Reading for Information

Career Readiness Certificate - Bronze
Unit 1: Reading Skills and Strategies
Unit 2: Reading for Information, Part 2
Unit 3: Applied Mathematics
Unit 4: Intermediate Computation with Decimals, Fractions and Percents
Unit 5: Measurement and Locating Information

Career Readiness Certificate - Silver
Unit 1: Reading Skills and Strategies
Unit 2: Reading Business Letters, References and Technical Materials
Unit 3: Applied Mathematics
Unit 4: Intermediate Computation with Decimals, Fractions and Percents
Unit 5: Probability, Algebraic Concepts and Reading Graphical Data

Career Readiness Certificate - Gold
Unit 1: Reading Skills and Strategies
Unit 2: Reading for Information
Unit 3: Applied Mathematics
Unit 4: Decimals, Fractions and Percents
Unit 5: Geometry and Measurement
Unit 6: Intermediate Computation with Decimals, Fractions and Percents
Unit 7: Data Analysis, Statistics and Probability, and Problem Solving
Unit 8: Algebraic Concept
Unit 9: Locating Information

CASAS- Competencies 0-4
Unit 1: 0 Basic Communication
Unit 2: 1 Consumer Economics
Unit 3: 2 Community Services
Unit 4: 3 Health
Unit 5: 4 Employment

CASAS- Competencies 5
Unit 1: Government, Law and Civics
Unit 2: Economics
Unit 3: Historical Information

CASAS- Competencies 6
Unit 1: Computation and Whole Numbers
Unit 2: Decimals and Fractions
Unit 3: Percents, Rate, Ratio and Proportion
Unit 4: Expressions, Equations and Formulas
Unit 5: 4 Measurement, Probability and Statistics

CASAS- Competencies 7
Unit 1: Critical Thinking, Problem Solving and Study Skills
Unit 2: Information and Communication Technology

CASAS- Competencies Basic Reading Skills
Unit 1: Vocabulary
Unit 2: Reading Strategies
Unit 3: Reading Comprehension

CASAS- Competencies Adult Secondary Reading Skills
Unit 1: Reading Level D – Adult Secondary
Unit 2: Reading Level E – Advanced Adult Secondary

CASAS- Competencies Basic Writing skills
Unit 1: Grammar
Unit 2: Grammar and Mechanics, Part 1
Unit 2: Grammar and Mechanics, Part 2
Unit 2: Writing Strategies

CASAS- Competencies Adult Secondary Writing skills
Unit 1: Grammar
Unit 2: Writing Applications

Compass - Mathematics
Unit 1: Numerical Skills
Unit 2: Pre-Algebra
Unit 3: Algebra
Unit 4: College Algebra
Unit 5: Geometry – Angles, Rectangles, and Triangles
Unit 6: Geometry and Trigonometry

**Compass - Reading**
- Unit 1: Compass Reading
- Unit 2: Practical Reading

**Compass - Writing**
- Unit 1: Punctuation
- Unit 2: Basic Grammar Usage
- Unit 3: Sentence Structure
- Unit 4: Rhetorical Skills, Organization and Style

**GED - Mathematics**
- Unit 1: Number, Number Sense and Operation
- Unit 2: Measurement and Geometry
- Unit 3: Data, Statistics and Probability
- Unit 4: Algebra, Functions and Patterns

**GED - Reading**
- Unit 1: Literary Text
- Unit 2: Nonfiction Prose

**GED – Science, Part 1**
- Unit 1: Physical Science, Part 1
- Unit 2: Physical Science, Part 2
- Unit 3: Earth Science

**GED – Science, Part 2**
- Unit 1: Life Science
- Unit 2: Applies to All Science Disciplines

**GED – Social Studies – Geography and World History**
- Unit 1: Geography
- Unit 2: World History

**GED – US History, Civics and Economics**
- Unit 1: United States History, Part 1
- Unit 2: United States History, Part 2
- Unit 3: Civics and Government
Unit 4: Economics

GED - Writing
Unit 1: Editing Section: Organization
Unit 2: Editing Section: Sentence Structure
Unit 3: Editing Section: Usage
Unit 4: Editing Section: Mechanics and Essay Writing

HESI – A2
Unit 1: Basic Mathematics
Unit 2: Algebra
Unit 3: Geometry
Unit 4: Language
Unit 5: Science, Part 1
Unit 6: Science, Part 2

NRS Language L2
Unit 1: Language Structure and Function
Unit 2: Writing Strategies

NRS Language L3
Unit 1: Language Structure and Function
Unit 2: Writing Strategies

NRS Language L4
Unit 1: Language Structure and Function
Unit 2: Writing Strategies

NRS Language L5
Unit 1: Language Structure and Function
Unit 2: Writing Strategies
Unit 3: Writing for the Workplace

NRS Language L6
Unit 1: Language Structure, Grammar and Mechanics
Unit 2: Writing for the Workplace

NRS Mathematics L1
Unit 1: Number Concepts
Unit 2: Computation and Measurement

NRS Mathematics L2
Unit 1: Number Concepts and Computation
Unit 2: Computation with Decimals, Fractions and Percents
Unit 3: Geometry and Measurement
Unit 4: Data Analysis and Problem Solving

NRS Mathematics L3
Unit 1: Number Concepts
Unit 2: Intermediate Computation with Fractions
Unit 3: Intermediate Computation with Decimals and Percents
Unit 4: Geometry and Measurement
Unit 5: Data Analysis and Problem Solving

NRS Mathematics L4
Unit 1: Number Concepts and Intermediate Computation with Decimals, Fractions and Percents
Unit 2: Geometry and Measurement
Unit 3: Data Analysis, Statistics & Probability, and Problem Solving
Unit 4: Algebraic Concepts, Part 1
Unit 5: Algebraic Concepts, Part 2

NRS Mathematics L5
Unit 1: Intermediate Computation with Decimals, Fractions and Percents
Unit 2: Geometry and Measurement, Part 1
Unit 3: Geometry and Measurement, Part 2
Unit 4: Algebraic Concepts

NRS Mathematics L6
Unit 1: Data Analysis, Statistics & Probability, and Problem Solving
Unit 2: Advanced Algebraic Concepts, Part 1
Unit 3: Advanced Algebraic Concepts, Part 2
Unit 4: Trigonometry

NRS Reading L2
Unit 1: Reading Skills and Strategies
Unit 2: Vocabulary and Reading Comprehension

NRS Reading L3
Unit 1: Reading Skills and Strategies
Unit 2: Vocabulary and Reading Comprehension

NRS Reading L4
Unit 1: Reading Skills and Strategies
Unit 2: Vocabulary and Reading Comprehension
NRS Reading L5
Unit 1: Reading Skills and Strategies
Unit 2: Vocabulary and Reading Comprehension
Unit 3: Reading for Information

NRS Reading L6
Unit 1: Reading Skills and Strategies
Unit 2: Reading for Information

PRAXIS II: Biology: Content Knowledge
Unit 1: Basic Principles of Science
Unit 2: Chemical Basis of Life
Unit 3: Animals
Unit 4: Classical Genetics and Evolution
Unit 5: Plants
Unit 6: Life Science
Unit 7: Math and Measurement
Unit 8: Data Skills

PRAXIS II: Chemistry: Content Knowledge
Unit 1: Introductory Chemistry
Unit 2: Chemical Transformations
Unit 3: Mathematics, Measurement and Data Skills

PRAXIS II: Citizenship and Social Science, Part 1
Unit 1: World History I – The Growth of Early Civilizations
Unit 2: World History II – Medieval Times to the Mid-1800s
Unit 3: World History III – Mid-1800s to World War II
Unit 4: World History IV – Post-World War II to the Present
Unit 5: Civics and Government
Unit 6: Scarcity and Economic Choice

PRAXIS II: Citizenship and Social Science, Part 2
Unit 1: US History: Pre-Columbian Years to Reconstruction
Unit 2: US History: Post-Civil War America to World War II
Unit 3: US History: Post World War II to Present
Unit 4: People, Places and Geographic Regions, Part 1
Unit 5: People, Places and Geographic Regions, Part 2

PRAXIS II: Elementary Education - Mathematics
Unit 1: Whole Numbers, Place Value, Addition and Subtraction
Unit 2: Multiplication and Division
Unit 3: Fractions, Decimals and Percents
Unit 4: Algebraic Concepts
Unit 5: Geometry and Measurement
Unit 6: Data Organization and Interpretation

PRAXIS II: Elementary Education – Reading/Language Arts
Unit 1: Foundations of Reading
Unit 2: Reading Reference Material
Unit 3: Components of Written Language
Unit 4: Writing Strategies

PRAXIS II: Elementary Education – Science
Unit 1: Physical Science
Unit 2: Life Science
Unit 3: Earth Science

PRAXIS II: Elementary Education – U.S. History
Unit 1: Economics
Unit 2: Government and Civics
Unit 3: Pre-Columbian Years to Reconstruction
Unit 4: Post-Civil War America
Unit 5: America Post World War II to Present

PRAXIS II: Elementary Education – World History
Unit 1: The Growth of Early Civilizations
Unit 2: Medieval Times to the Mid-1800s
Unit 3: Mid-1800s to World War II
Unit 4: Post World-War II to the Present
Unit 5: Geography

PRAXIS II: English Language Arts (0511)
Unit 1: Reading Literature
Unit 2: Literary Methods and Effects
Unit 3: Reading and Communication Skills

PRAXIS II: English Language, Literature and Composition (0411)
Unit 1: Literature and Understanding Text
Unit 2: Language and Linguistics
Unit 3: Composition and Rhetoric

PRAXIS II: General Science, Part 1
Unit 1: Basic Principles of Science
Unit 2: Measurement
Unit 3: Data Skills
Unit 4: Life Science
Unit 5: Biology

PRAXIS II: General Science, Part 2
Unit 1: Introductory Chemistry
Unit 2: Chemical Transformations
Unit 3: Physical Science
Unit 4: Earth and Space Science

PRAXIS II: Mathematics (0511)
Unit 1: Number Sense and Basic Algebra
Unit 2: Basic Algebra
Unit 3: Geometry and Measurement
Unit 4: Data Analysis, Statistics & Probability, and Problem Solving

PRAXIS II: Mathematics Content Knowledge (0061) (0063) (0064)
Unit 1: Arithmetic and Basic Algebra
Unit 2: Geometry
Unit 3: Trigonometry
Unit 4: Analytic Geometry
Unit 5: Functions and their Graphs
Unit 6: Discrete Mathematics and Linear Algebra
Unit 7: Mathematical Reasoning and Modeling

PRAXIS II: Science, Part 1 (0511)
Unit 1: Life Science
Unit 2: Chemistry
Unit 3: Biology

PRAXIS II: Science, Part 2 (0511)
Unit 1: Physical Science
Unit 2: Earth and Space Science

PRAXIS II: Social Studies, Part 1 (0081)
Unit 1 – American History: Period of Exploration to Reconstruction
Unit 2 – American History: Post-Civil War to the New Deal
Unit 3 – American History: World War II to Present

PRAXIS II: Social Studies, Part 2 (0081)
### Unit 1 – Government/Civics/Political Science
Unit 2 – Economics

**PRAXIS II: Social Studies, Part 3 (0081)**
- Unit 1 – World History: The Growth of Early Civilizations to the mid-1800s
- Unit 2 – World History: Mid-1800s to the Present
- Unit 3 – Geography, Part 1
- Unit 4 – Geography, Part 2
- Unit 5 – Earth and Space Science

**PRAXIS II: World and US History**
- Unit 1 – World History – Early Civilizations to the mid-1800s
- Unit 2 – World History – Mid 1800s to the Present
- Unit 3 – US History – Exploration to the Civil War
- Unit 4 – US History – Post Civil War to the Present

**SAT I - Mathematics**
- Unit 1: Number and Operations
- Unit 2: Geometry and Measurement
- Unit 3: Data Analysis, Statistics and Probability
- Unit 4: Algebraic Functions, Part 1
- Unit 5: Algebraic Functions, Part 2

**SAT I – Language Arts**
- Unit 1: Critical Reading
- Unit 2: Writing

**TABE – Language Level A**
- Unit 1 – Language Structure and Mechanics
- Unit 2 – Writing Strategies
- Unit 3 – Writing for the Workplace

**TABE – Language Level D**
- Unit 1 – Language Structure and Mechanics
- Unit 2 – Writing Strategies
- Unit 3 – Writing for the Workplace

**TABE – Language Level E**
- Unit 1 – Language Structure and Mechanics
- Unit 2 – Writing Strategies

**TABE – Language Level L**
- Unit 1 – Language Structure and Mechanics
Unit 2 – Writing Strategies

TABE – Language Level M
Unit 1 – Language Structure and Mechanics
Unit 2 – Writing Strategies
Unit 3 – Writing for the Workplace

TABE – Math Level A, Part 1
Unit 1 – Intermediate Computation with Decimals, Fractions, and Percents
Unit 2 – Geometry and Measurement
Unit 3 – Algebraic Concepts

TABE – Math Level A, Part 2
Unit 1 – Advanced Algebraic Concepts
Unit 2 – Data Analysis, Probability, and Trigonometry

TABE – Math Level D
Unit 1 – Number Concepts, Decimals, Fractions, and Percents
Unit 2 – Geometry and Measurement
Unit 3 – Data Analysis, Probability, and Trigonometry
Unit 4 – Algebraic Concepts

TABE – Math Level E
Unit 1 – Number Concepts and Computation
Unit 2 – Computation with Decimals, Fractions, and Percents
Unit 3 – Geometry and Measurement
Unit 4 – Data Analysis and Problem Solving

TABE – Math Level L
Unit 1 – Number Concepts
Unit 2 – Computation and Measurement

TABE – Math Level M
Unit 1 – Number Concepts
Unit 2 – Computation
Unit 3 – Intermediate Computation with Decimals, Fractions, and Percents
Unit 4 – Geometry and Measurement
Unit 5 – Data Analysis and Problem Solving

TABE – Reading Level A
Unit 1 – Reading Skills and Strategies
Unit 2 – Reading for Information
TABE – Reading Level D
  Unit 1 – Reading Skills and Strategies
  Unit 2 – Vocabulary and Reading Comprehension, Part 1
  Unit 3 - Vocabulary and Reading Comprehension, Part 2
  Unit 4 – Reading for Information

TABE – Reading Level E
  Unit 1 – Reading Skills and Strategies
  Unit 2 – Vocabulary and Reading Comprehension, Part 1
  Unit 3 - Vocabulary and Reading Comprehension, Part 2

TABE – Reading Level M
  Unit 1 – Reading Skills and Strategies
  Unit 2 – Vocabulary and Reading Comprehension, Part 1
  Unit 3 - Vocabulary and Reading Comprehension, Part 2
  Unit 4 – Reading for Information

TEAS - Math
  Unit 1 – Whole Numbers
  Unit 2 – Metric Conversion
  Unit 3 – Fractions and Decimals
  Unit 4 – Algebraic Equations
  Unit 5 – Percentages
  Unit 6 – Ratio and Proportion
  Unit 7 – Basic Geometry
  Unit 8 – Diagrams and Graphs

TEAS - English
  Unit 1 – Punctuation, Capitalization and Grammar
  Unit 2 – Sentence Structure
  Unit 3 – Contextual Words
  Unit 4 – Spelling

TEAS - Reading
  Unit 1 – Paragraph Comprehension
  Unit 2 – Passage Comprehension
  Unit 3 – Inferences/Conclusions

TEAS - Science
  Unit 1 – General Science and Scientific Reasoning
  Unit 2 – Biology
Unit 3 – Anatomy and Physiology
Unit 4 – Chemistry
Unit 5 – Physics – Part I
Unit 6 – Physics – Part II
Unit 7 – Earth and Space Science