



Virtual Learning Academy

**2009/2010 Course Catalog**

### **AP® Biology – Semester 1**

AP Biology A is a one-semester, introductory college-level course. The topics for this course match the rigors of a college biology classroom. The course emphasizes understanding concepts rather than memorizing facts; with this in mind, students will practice scientific inquiry, recognize common themes across several topics of biology, and apply critical thinking to environmental and social concerns.

This semester covers topics relating to molecules and cells, heredity and evolution, and organisms and populations. While studying these topics, students will understand the basic themes of biology; these include science as a process, evolution, energy transfer, continuity and change, relationship of structure to function, regulation, interdependence on nature, and the impacts of science and technology on society. Chapter assignments allow students to practice what they have learned through lab activities and to write question responses in the style of the AP College Board Exam.

Prior to taking this course, students should have successfully completed a first-year high school biology course and one high school chemistry course.

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### **AP® Biology – Semester 2**

AP Biology B is a one-semester, introductory college-level course. The topics for this course match the rigors of a college biology classroom. Upon successful completion of this course, students should be prepared to pass the AP Biology B Exam. The course emphasizes understanding concepts rather than memorizing facts; with this in mind, students will practice scientific inquiry, recognize common themes across several topics of biology, and apply critical thinking to environmental and social concerns.

This semester covers topics relating to molecules and cells, heredity and evolution, and organisms and populations. While studying these topics, students will understand the basic themes of biology; these include science as a process, evolution, energy transfer, continuity and change, relationship of structure to function, regulation, interdependence on nature, and the impacts of science and technology on society. Chapter assignments allow students to practice what they have learned through lab activities and to write question responses in the style of the AP College Board Exam.

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### **AP® Calculus BC - Semester 1**

This course offers one semester of study that aims to develop students' understanding of calculus concepts and to provide experience with methods and applications of calculus. Students work with functions in a variety of ways, including graphical, numerical, and analytical. Students use derivatives to solve a variety of problems. Students use technology to help solve problems and interpret results, and also learn to rely on paper-and-pencil techniques of calculus. Students also learn to determine how reasonable their solutions are.

Before studying calculus, students should have completed four years of college-preparatory math classes, including algebra, geometry, trigonometry, analytic geometry, and elementary functions.

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### **AP® Calculus BC – Semester 2**

This course offers one semester of study that aims to develop students' understanding of calculus concepts and to provide experience with methods and applications of calculus. The topics will extend from the first semester course to include functions, graphs, and limits; derivatives; integrals; and polynomial approximation and series.

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### **AP® ENGLISH LITERATURE A**

In AP® ENGLISH LITERATURE students develop research skills as well as reading and critical thinking skills necessary for understanding challenging new material, analyzing that material to deduce meaning, and applying what they have learned to their world. They receive practice in composition skills needed to communicate their understanding effectively to a variety of audiences. Students will read and analyze classic works of literature as well as modern and contemporary works. They examine all genres: plays, short stories, poetry, essays, and novels. The academic objectives of this course adhere to those outlined by the College Board in preparation for the Advanced Placement Exam in English Literature.

Prerequisite: English III

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### **AP® ENGLISH LITERATURE B**

In AP® ENGLISH LITERATURE students develop research skills as well as reading and critical thinking skills necessary for understanding challenging new material, analyzing that material to deduce meaning, and applying what they have learned to their world. They receive practice in composition skills needed to communicate their understanding effectively to a variety of audiences. Students will read and analyze classic works of literature as well as modern and contemporary works. They examine all genres: plays, short stories, poetry, essays, and novels. The academic objectives of this course adhere to those outlined by the College Board in preparation for the Advanced Placement Exam in English Literature.

Prerequisite: English III

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### **AP® Environmental Science**

The unifying themes in this course include understanding science as a process, energy conversions as the basis for all ecological processes, the earth as an interconnected system made up of natural systems which humans change, and environmental problems and how human survival depends on sustainable systems. This course involves a strong laboratory and field investigation component to reinforce fundamental concepts and principles. Students will have opportunities to develop skills such as critical observation, interpretation and analysis of data, applying solutions to problems, and evaluating the quality and validity of conclusions.

Before taking this course, students should have completed one year of physical science, one year of life science, and a year of algebra. A course in earth science is advantageous but not necessary.

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### **AP® French Language**

In AP® French Language, students apply their French grammar and vocabulary knowledge as well as their listening, reading, speaking, and writing skills to a wide variety of real-world contexts. Students learn to speak fluently and accurately, write sophisticated compositions, and comprehend native speakers. The equivalent of a college-level language course, AP® French Language prepares students for the AP® exam and for further study of French language, culture, and literature. An integrated, game-based reward system keeps learners motivated and eager to progress. Content provided by powerspeak12

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### **AP® Government and Politics**

This course teaches students to analyze U.S. government and politics by providing a background of general concepts along with specific examples to study in depth. Students will explore several theoretical perspectives and explanations for outcomes in the U.S. government. Topics include constitutional underpinnings of the U.S. government, political beliefs and behaviors, political parties, interest groups and mass media, institutions of national government, public policy, and civil rights and civil liberties.

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## **AP® LANGUAGE AND COMPOSITION A**

AP® LANGUAGE AND COMPOSITION explores the relationship between an author's ideas and how those ideas are expressed. The literary component of the course provides a range of genres, including nonfiction, fiction, drama, and poetry. Students will analyze style, specifically focusing on how elements of language—such as tone, diction, and syntax—influence an author's meaning. Students will also analyze the use of rhetoric in writing, examining various appeals, aspects of writer's credibility, irony, and the overall use of logic to explore how effectively an author presents his or her position. In written assignments, students will evaluate the expository and argumentative aspects of writing. In addition to the exploration of American and global themes of literature, students will discern how composition and rhetoric has developed over the last several centuries. The academic objectives of this course adhere to those outlined by the College Board in preparation for the Advanced Placement Exam in Language and Composition.

Prerequisite: English II

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## **AP® LANGUAGE AND COMPOSITION B**

AP® LANGUAGE AND COMPOSITION explores the relationship between an author's ideas and how those ideas are expressed. The literary component of the course provides a range of genres, including nonfiction, fiction, drama, and poetry. Students will analyze style, specifically focusing on how elements of language—such as tone, diction, and syntax—influence an author's meaning. Students will also analyze the use of rhetoric in writing, examining various appeals, aspects of writer's credibility, irony, and the overall use of logic to explore how effectively an author presents his or her position. In written assignments, students will evaluate the expository and argumentative aspects of writing. In addition to the exploration of American and global themes of literature, students will discern how composition and rhetoric has developed over the last several centuries. The academic objectives of this course adhere to those outlined by the College Board in preparation for the Advanced Placement Exam in Language and Composition.

Prerequisite: English II

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## **AP® Physics B – Semester 1**

This one-semester course focuses on the basic principles of physics and their applications with an emphasis on problem solving and a deep understanding of physics concepts. Category B physics builds on conceptual understanding learned in a first physics course. Before taking this course, students should be familiar with algebra, trigonometry, and basic concepts of calculus. Laboratory experience will provide students with opportunities to design, observe, measure, critically analyze, draw inferences, and communicate results. This experience is central to students' understanding of topics, which include Newtonian mechanics, fluid mechanics and thermal physics, electricity and magnetism, waves and optics, and atomic and nuclear physics.

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## **AP® Physics B – Semester 2**

This one-semester course extends the topics, basic principles of physics and their applications, problem solving, and in-depth discussion of physics concepts which students started learning in AP Physics B – Semester 1.

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## **AP® Spanish Language**

In AP® Spanish Language, students perfect their Spanish speaking, listening, reading, and writing skills. Students study vocabulary, grammar, and cultural aspects of the language, and apply what they've learned in extensive written and spoken exercises. By the end of the course, students will have an expansive vocabulary and a solid working knowledge of all Spanish verb forms and tenses. The equivalent of a college-level language course, AP® Spanish Language prepares students for the AP® exam and for further study of Spanish language, culture, and literature. An integrated, game-based reward system keeps learners motivated and eager to progress. Content provided by powerspeak12, Inc.

Prerequisite: Spanish III (or equivalent) and a teacher/counselor recommendation.

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## **AP® United States History - Semester 1**

This one-semester course provides students with a pool of factual knowledge and the skills to interpret, analyze, and critically treat the problems of U.S. history. Students will learn to assess the relevance, reliability, and importance of historical material. The course emphasizes the ability to effectively use reasoned judgment and detailed evidence to construct a persuasive essay. Themes include American diversity and identity, economic transformation, globalization, religion, war, and diplomacy. Students explore several topics within these themes, including pre-Columbian societies, transatlantic encounters, colonial beginnings, colonial North America, the early Republic, antebellum America, the Civil War, and Reconstruction.

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## **AP® United States History – Semester 2**

This one-semester course provides students with a pool of factual knowledge and the skills to interpret, analyze, and critically treat the problems of U.S. history. Students will learn to assess the relevance, reliability, and importance of historical material. The course emphasizes the ability to effectively use reasoned judgment and detailed evidence to construct a persuasive essay. Themes build from the first semester to include culture, demographic changes, environment, politics, and citizenship. The course explores several topics within these themes, including development of the West in the late 19th century, populism and progressivism, the Great Depression, the Second World War, the cold war, politics, and economics at the end of the 20th century.

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### **Electives**

## **Career and Technology Skills A (HS)**

Career and Technology A is the first part of a two-semester course that covers skills to prepare students for workplace success. Students will explore their interests, aptitudes, and skills plus their individual learning styles in order to find possible career matches. Students will also consider their values and expectations as they learn and practice the skill of goal setting. Students will apply their knowledge of learning styles and memory techniques to enhance their study skills. The course also presents an overview of basic technology skills, including the use of word processing, spreadsheet, presentation, and database software, that are so vital to success in the workplace. Practice opportunities help students master the use of such software. The course provides open source software programs to the students. Students will explore a variety of career options plus use the steps in the decision-making process to develop their own career plan. To help achieve career goals, students research a variety of post-high school opportunities. Students will create and evaluate job application materials, learn to search for job opportunities, and conduct a successful job interview. Finally, the course presents the role of government in business; global, national, and local economic trends; and how these factors affect working people.

## **Career and Technology Skills B (HS)**

Career and Technology B is the second part of a two-semester course that covers problem-solving, decision-making, and communication skills necessary to succeed in the workplace. Students will learn about workplace policies and procedures, growth and promotion opportunities, and the social and technological systems of any business. They will also understand legal and ethical issues related to their personal rights as workers. Students will prepare presentations and communications scenarios for different purposes and audiences, employing a variety of technology skills. The course explains effective leadership skills and provides examples of critical assessment, evaluation, and negotiation. Students will learn the steps of the problem-solving process to identify causes and seek effective resolutions. Students will also learn to plan a project and respond to problems and risks. Finally, students will learn skills for time management, financial responsibility, and methods to deal with stress.

### **Computer Literacy A (HS/MS)**

This one-semester course develops students' overall understanding of computers and enhances technical skills in both basic computer functions and in the use of various types of software. By providing technical instruction and several practice opportunities, this course offers a strong foundation in basic computer literacy. After completing this course, students will be able to recognize computer hardware and use Windows XP and Mac OS operating systems. Students also will learn to use various software applications (word processing, spreadsheet, and presentation software), which are based on OpenOffice.org unless otherwise noted.

### **Computer Literacy B (HS)**

This one-semester course builds on basic computer skills to teach students real-world problem solving methods. The course content includes a review unit from the introductory course before covering advanced features of spreadsheets and databases. The course further develops students' understanding of key issues in computing technology, including additional information about the use of spreadsheets and databases as well as an introduction to HTML. It ends with a unit covering careers in technology.

### **Current Events (HS)**

Current Events is a one-semester, elective course structured to increase students' understanding of current issues in areas of politics, society, and economics. The course emphasizes student research; the topics chosen are broad in nature to allow for fluctuation in media coverage on common topics. Upon completing this course, students will have a greater understanding of some of the political, social, and economic issues that have dominated the news in recent years. Students will be able to find Web sites and other sources that cover these issues, and students will learn to make educated decisions as to whether the Web sites or sources present biased or unbiased coverage. For each content unit, students will write essays that demonstrate their research efforts. Students will complete a research-based essay at the end of the course.

### **Fundamentals of Art Appreciation (HS)**

Fundamentals of Art Appreciation is a one-semester course that explores various aspects of art in an effort to intrigue students and encourage them to develop an understanding of fine art. As students begin to examine the elements and principles of art, they will study important works selected from various types of media, including painting, sculpture, architecture, and photography. Students will explore various types of art media and techniques as they investigate the question of what compels artists to create works of art. This course will provide students with a working knowledge of concepts and an enriched vocabulary so that they can become more critical observers of art.

### **Fundamentals of Art History (HS)**

This one-semester course is designed to develop students' understanding and appreciation for the visual arts. This course explores the arts, artists, and their cultures from prehistoric times through the present. Students will begin to explore important works of art, selected from various types of media, including painting, sculpture, architecture, and photography. As the course presents works of different periods, students will receive the historical and geographic context necessary for gaining a deeper appreciation of the pieces. This course will provide students with a working knowledge of concepts and an enriched vocabulary so that they can become more critical observers of art.

### **Fundamentals of English Composition (HS)**

Fundamentals of English Composition is a one-semester course designed to give beginning writers the tools to write effectively for school and life. Course lessons and activities will engage students in practical and accessible discussions of how to write and why. Throughout the course, emphasis is placed on the principle that effective writing achieves its purpose. Students will identify characteristics of effective writing. Students will identify different purposes for writing and learn strategies to achieve those purposes. The course further addresses the writing process through in-depth instruction on prewriting and revision. Along with this, the course explains writing context and issues of audience and intended audience. Students will learn how to achieve purpose through style, form, and rhetorical mode. In the last part of the course, students will evaluate their own work through the lenses of reader expectations and constructive criticism. Upon completion of this course,

students will have demonstrated success at various prewriting activities, outlined their work extensively, and written an analytical essay, a persuasive cover letter, and a personal narrative. Students will also have been exposed to peer review practices as well as guidelines for accepting and offering constructive criticism.

### **Fundamentals of Web Development (HS)**

There's more to creating a Web site than writing HTML code and uploading files. A good Web site must be designed before it's created. This one-semester course introduces students to both Web site design and development. The course introduces students to the basic Web site design principles, which can be used to both design and evaluate their own sites and to evaluate other sites. Students will learn development languages such as HTML and CSS. In addition, students will be introduced to two software programs: GIMP, an image-editing program, and Nvu, a Web development program.

Recommended Prerequisites: Computer Literacy A, Computer Literacy B

### **Introduction to Anthropology (HS)**

Anthropology aims to use a broad approach to gain an understanding of our past, present, and future to address the problems humans face in biological, social, and cultural life. This course will explore the evolution, similarities, and diversity of humankind through time. The course 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 videos lead students through journeys to different areas of the world throughout the course.

### **Introduction to Graphic Design (HS)**

This one-semester course is designed to develop students' understanding and appreciation for design. By raising students' awareness of design, this course will serve as a strong foundation in the basic principles of graphic design. Students will learn to communicate visually; they will present their own ideas and information graphically by applying graphic design principles in their own work as well as interpret visual representations presented to them. The course will introduce students to problem-solving scenarios that can be solved graphically. Students will apply creativity techniques to create innovative and effective design solutions. Students will also learn about the history of design, how various design movements have contributed to the field of design today, what role design plays in society, and how the field of design relates to other facets of society. Though the course is structured around computer-assisted graphic design, other types of design are discussed as well. Students will learn to use Inkscape, an image-editing program that will be provided for them and will be required to create several design compositions using this program.

### **Introduction to Online Learning (HS/MS)**

Becoming familiar with an online learning environment is essential to your success as a student who takes classes online. Introduction to Online Learning provides information that will ensure your success for navigating the Advanced Academics platform, including how to access your classes, take assessments, submit written assignments, and view your grades. This course will also cover the various ways to communicate with your teachers and the guidelines for effective communication. You will learn how to set up the technical requirements so that you can get the most out of your Advanced Academics learning experience. The course concludes with an overview of test and homework retake policies, ways to cite sources, and avoiding plagiarism. This orientation course introduces students to the online environment, and is not intended to be a full semester course.

### **Introduction to Sociology (HS)**

The world is becoming more complex. How do your beliefs, values, and behavior affect the people around you and the world we live in? In this increasingly connected world, students will examine problems in our society and learn how human relationships can influence the life of the student. This course presents exciting, online video journeys to different areas of the world.

### **Journalism A (HS)**

Journalism A is the first of a two-part series that introduces secondary school students to the world of journalism. They will see how their strengths and interests compare with those associated with careers in journalism.

In this course, students will gain a basic knowledge of journalism, its early history, and its importance in our culture. Students will be introduced to different types of news stories and learn about the reporting and writing skills involved with each.

### **Journalism B (HS)**

Journalism B is the second of a two-part series that introduces secondary school students to the world of journalism. Students will explore the changing role of journalism in today's society. They will gain a basic knowledge of radio, television, newspaper, and Internet journalism. This knowledge will include how each medium is relevant today, how it may adapt to economic changes and audience preferences, and how writing for each medium has its own characteristics.

### **Life Skills (HS/MS)**

Life Skills, a one-semester course, presents high school students with helpful information in the form of entertaining and interactive games, activities, and quizzes in order to assist them in preparation to exit high school. Whether their choice is college, technical school, the military, or a full-time career, this course teaches basic skills needed in every avenue. In addition to providing strategies for taking the ACT and SAT tests, this course provides an informative timeline to help students stay on schedule with required tasks for graduating from high school and entering the outside world. Consumer protection, establishing credit, managing money, buying a car, and renting an apartment for the first time are a few of the topics covered throughout this course.

### **Music Theory A (HS) – coming soon**

Music provides a way for students to express themselves artistically, but music also enhances intelligence and creativity. Music Theory A is a semester-long, elective course designed to develop students' visual and aural understanding of the structure of music. In this course, students will study the language and symbols of music. Not only will students learn to read various musical elements, such as scales, chords, pitch notations, and time signatures, they will also learn to construct these elements themselves. The course also teaches students to understand basic forms in music compositions, including the skill of notation. As students learn these various aspects of music theory, they will undergo ear training to teach them to recognize these elements aurally as well.

### **Personal Psychology (HS)**

Psychology is the study of human and animal behavior. More than 800,000 high school students take psychology classes each year. Self-discovery is frequently cited among the different reasons for studying psychology. Learning about psychology helps you gain a better understanding of your own behavior. Enrich the quality of your life by learning to understand the actions of others. This course presents interactive personal psychology experiments.

## **Health Education**

### **Fitness Fundamentals I A (MS/HS)**

This one-semester course will teach students how to assess their fitness levels and establish goals for improvement in the five fitness areas: muscular strength, endurance, cardiovascular fitness, flexibility, and body composition. The course provides information so that students establish and maintain good fitness practices well after finishing the course. Students will also learn proper posture and technique, the benefits of fitness, and the prevention of injury. This course covers a minimum of 120 days worth of activities.

### **Fitness Fundamentals I B (MS/HS) – coming soon**

This one-semester course will teach students what makes a person fit plus the basics of figuring heart rate and intensity. Students will also learn ways to use nutrition to manage weight along with information about

drug use and its impact on fitness. Coupled with a minimum requirement of physical activity, which includes cardio, strength training, and flexibility, the course provides opportunities for students to complete written assignments, journal entries, and discussions. This course covers a minimum of 120 days worth of activities.

### **Personal Health and Safety (MS/HS)**

Personal Health and Safety is a one-semester course which examines the mental, physical, and social aspects of health for living a healthy, informed, and balanced life. Mental health topics including enhancing self esteem, practicing stress reduction, and identifying depression will be examined. The course covers effective conflict management and communication skills. Students will learn the basics of first aid and how to manage minor medical emergencies. Topics of wellness, exercise, and healthy habits will be introduced. Students will also learn ways to resist peer pressure to engage in unhealthy and destructive behaviors including smoking, drinking alcohol, and drug abuse.

### **Personal Health and Safety with Sex Education (MS/HS)**

Personal Health and Safety is a one-semester course which examines the mental, physical, and social aspects of health for living a healthy, informed, and balanced life. Mental health topics including enhancing self esteem, practicing stress reduction, and identifying depression will be examined. The course covers effective conflict management and communication skills. Students will learn the basics of first aid and how to manage minor medical emergencies. Topics of wellness, exercise, and healthy habits will be introduced. Students will also learn ways to resist peer pressure to engage in unhealthy and destructive behaviors including smoking, drinking alcohol, and drug abuse. In addition, this course conveys the risks of sexual activity, such as unplanned pregnancy and sexually transmitted diseases, and options for eliminating these risks will be presented. Students will also be presented with an overview of infectious and non-infectious diseases, how they affect the body, and how they can be prevented.

### **Running (MS/HS)**

This one-semester course is suitable for beginning, intermediate, and advanced runners and offers a variety of training schedules for each. In addition to reviewing the fundamental principles of fitness, students will learn about goals and motivation, levels of training, running mechanics, safety and injury prevention, appropriate attire, running in the elements, good nutrition and hydration, and effective cross-training. While this course focuses mainly on running for fun and fitness, it also briefly explores the realm of competitive racing. Throughout this course, students will participate in a weekly fitness program involving running. Students will also be expected to record their weekly activities and heart rate. Coupled with a minimum requirement of physical activity which includes cardio, strength training, and flexibility, the course provides opportunities for students to complete written assignments, journal entries, and discussions. This course provides activities to cover a minimum of 120 days.

## **MS Language Arts**

### **MS Language Arts 6 A**

MS Language Arts 6 A is the first in a two-course series. In this course, students will become active participants in analyzing different forms of text. They will gain an understanding of the different types of literature. This course focuses on the narrative and expository forms of writing. Students will gain a better understanding of appropriate grammar, spelling, and vocabulary through instruction in the writing process, responses to literature, and direct instruction. Students will be required to read the novel *Hatchet*, by Gary Paulson, in addition to several short stories.

### **MS Language Arts 6 B**

MS Language Arts 6 B, the second in a two-course series, emphasizes reading persuasive texts, expository texts, narratives, and poetry. Students will explain the effects of common literary devices in fictional and non-fictional texts. Students will identify and utilize organizational patterns when writing. Students will also improve

their abilities to identify main ideas in writing and to achieve consistency of ideas between paragraphs when creating multi-paragraph expository and persuasive compositions. Students will gain a better understanding of appropriate grammar, spelling, and vocabulary through instruction in the writing process, responses to literature, and direct instruction.

### **MS Language Arts 7 A**

MS Language Arts 7 A is the first of a two-course series. In this course, students continue to build on prior knowledge and skills to strengthen reading, writing, speaking, and listening. The student will read literary and informational texts. Students are active participants in comprehending, analyzing, and evaluating different forms of text. For writing, the student will utilize the writing process to compose essays, reports, summaries, a speech, a drama, and responses to literature. Students will practice listening and speaking skills. Students are required to independently read two novels, two magazine articles, and two newspaper articles and complete related assignments.

### **MS Language Arts 7 B**

MS Language Arts 7 B is the second of a two-course series. In this course, students continue to build on prior knowledge and skills to strengthen reading, writing, speaking, and listening. Students are active participants in comprehending, analyzing, and evaluating different forms of text. For writing, the student will utilize the writing process to compose essays, reports, summaries, poetry, and responses to literature. Students conduct research to organize, synthesize, and present information. They will read the novel *The Outsiders* by S.E. Hinton. Students are required to read independently and to complete assignments related to the independent readings.

### **MS Language Arts 8 A**

The focus in the first part of this two-part course is grammar and reading. Areas of emphasis include sentence structure, word analysis, and review and practice of the eight parts of speech. Students read short stories and myths and practice grammar in context. Students will read the novel *The Giver* by Lois Lowry. For independent reading, students are required to choose two novels, two magazine articles, and two newspaper articles to read and complete related assignments.

### **MS Language Arts 8 B**

The focus in the second part of this two-part course is writing and reading. Areas of emphasis include clarity of sentences, the writing process, editing, and punctuation. For independent reading, students are required to read *Anne Frank: Diary of a Young Girl* by Anne Frank and a novel of choice. In addition, students are required to independently read two magazine and two newspaper articles and complete related assignments. The final unit of this course compares and contrasts Anne Frank's diary and the play *The Diary of Anne Frank* by Frances Goodrich and Albert Hackett. The students research the Holocaust and discuss historical and cultural issues. Students demonstrate their understanding of researched information through written assignments and a slide-show presentation.

## **MS Mathematics**

### **MS Fundamentals of Math 6 A**

MS Fundamentals of Math 6 A, the first course of a two-course series, begins with a review of the four arithmetic operations with whole numbers and introduces students to algebraic concepts such as variables and expressions. Students will understand and apply the order of operations when simplifying expressions. Students will be able to accurately solve problems using decimals, fractions, and integers as well as be able to compare and order positive and negative numbers, fractions, decimals, and mixed numbers. Students will identify variables and begin solving one and two step equations. The course offers students illustrations, examples, and practice exercises before formative assessments.

### **MS Fundamentals of Math 6 B**

The second course in the MS Fundamentals of Math 6 series builds upon foundational math skills. Students will develop math skills that are applicable to real life situations including how to calculate tips and discounts, find a test average, and calculate unit cost to determine which product is the better buy. Students will be expanding their geometry and measurement skills by exploring lessons that include learning to classify triangles; finding the sum of the interior angles of a polygon, perimeter, circumference, area, surface area, and volume; as well as converting both customary and metric units of measurement. Next, students will explore the best methods for collecting and displaying data and begin to recognize bias in data samples. The course ends with students solving and graphing inequalities, investigating functions, and learning how to graph functions on the coordinate plane. The course offers students illustrations, examples, and practice exercises before formative assessments.

### **MS Fundamentals of Math 7 A**

MS Fundamentals of Math 7 A is the first course of a two-course series that prepares the student for success in higher level math classes through the study of integers, exponents and factors, operations with fractions, ratios and proportions, and expressions and equations.

### **MS Fundamentals of Math 7 B**

MS Fundamentals of Math 7 B is the second course of a two-course series designed to prepare the student for higher level math classes. Areas of emphasis include functions and inequalities, data, statistics and probability, the basics of geometry, and two- and three-dimensional geometry. Students solve and graph inequalities, linear equations, and linear functions. Students also plot, describe, and find data using several methods to figure outcomes and probabilities. Using basic geometry techniques, students classify and find shapes and angles. Students also find area, understand the Pythagorean Theorem, and find volume and surface area for different shapes. The course offers students illustrations, examples, and practice exercises before formative assessments.

### **MS Pre-Algebra A**

MS Pre-Algebra A is the first of two courses designed to prepare the student for more advanced work in Algebra I. Students learn the basic concepts of arithmetic and the practical applications of mathematics in order to focus on integers, equations and inequalities, factors and exponents, fractions, decimals, ratios, proportions, and percents. The course offers graphics, explanations, and practice exercises before formative assessments.

### **MS Pre-Algebra B**

MS Pre-Algebra B is the second half of a series of two courses that are designed to prepare the student for more advanced work in Algebra I. The course emphasizes concepts in solving linear equations, graphing linear equations, angles, two- and three-dimensional geometry, integrating algebra with geometry, and data, statistics, and probabilities. The course offers graphics, explanations, and practice exercises before formative assessments.

## **MS Sciences**

### **MS Earth Science A**

MS Earth Science A, the first course of a two-semester series, introduces students to scientific investigation and experimentation and describes the methods and tools scientists use to study the earth. Students learn to read geologic maps, topographic maps, and various types of graphs for information. Concepts of density, heat, heat transfer, and types of energy are explored, and students examine the role of these concepts in earth processes. The course concludes by examining earth's layered structure and the transfer of heat from earth's interior through its layers.

### **MS Earth Science B**

MS Earth Science B, the second course of a two-semester series, examines how scientists use direct and indirect evidence to learn about earth's structure and function. Students learn the evidence for plate tectonics and relate plate movement to geological events such as earthquakes, mountain building, and volcanic eruptions. The rock cycle is described, and students learn how weathering and erosion shape the earth's surface. Students explore non-renewable and renewable resources and investigate the resources in their state. The geologic time scale is used to describe earth's history. Basic ecological concepts are introduced, including interactions in ecosystems, matter and energy flow, and populations. Earth's biomes are surveyed. The course concludes with an introduction to space science. Students explore the origin and structure of the universe, characteristics of the solar system, and motions of the planets and other celestial objects.

### **MS Life Science A**

MS Life Science A, the first course of a two-semester series, introduces students to basic biological concepts and the use of the scientific method in the study of life. Specific topics include characteristics of life; classification of living organisms; characteristics of bacteria, protists, fungi, plants, and animals; evolutionary theory; ecology; and effects of resource use and pollution on ecosystems.

### **MS Life Science B**

MS Life Science B, the second course in a two-semester series, begins by exploring cell structure and function and organization of tissues, organs, and systems. Students then examine the following body systems: muscular, skeletal, digestive, excretory, reproductive, circulatory, respiratory, immune, nervous, and endocrine. For each body system, students explore structure, function, related diseases, and disease prevention factors. The course also includes an introduction to DNA structure, principles of inheritance, and genetic engineering.

### **MS Physical Science A**

MS Physical Science A (Integrated Physics and Chemistry A), the first course of a two-semester series, includes topics focusing on scientific process skills, motion, forces, energy, behavior of matter, waves, machines and work, and electricity and magnetism. Students will also learn the mathematical relationships between physical measurements.

### **MS Physical Science B**

MS Physical Science B (Integrated Physics and Chemistry B), the second of a two-semester series, includes topics focusing on properties of matter, properties of elements, chemical reactions, properties of compounds, nuclear energy, and careers in the physical sciences.

## **MS Social Studies/Sciences**

### **MS Ancient Civilizations A**

MS Ancient Civilizations A examines the significance of geography in the development of ancient civilizations. Students will study the archeological evidence of early human societies then move on to the development of ancient cultures. The course provides a context for the understanding of history through a survey of the geographic, political, economic, religious, and social structures of the early civilizations of Mesopotamia, Egypt and Kush, Ancient Hebrews, and Ancient Greece. Students will analyze the contributions of these early civilizations to the modern world.

### **MS Ancient Civilizations B**

MS Ancient Civilizations B examines the significance of geography in the development of ancient civilizations. The course provides a context for the understanding of history through a survey of the geographic, political, economic, religious, and social structures of the early civilizations of India, the early civilizations of China, and through the development of Rome. Students will analyze the contributions of these early civilizations to the modern world.

## **MS Social Studies A**

MS Social Studies A is the first part of a two-semester course. This course provides students with the knowledge and tools essential to understanding a variety of social studies topics. Students will use visual aids such as charts, graphs, pyramids, and diagrams to understand information-gathering techniques and how to predict future population trends. Students will also apply latitude and longitude concepts to a map to find locations. After reading timelines properly, students will identify causes and effects of historic events. By examining relative and absolute locations on maps, students will examine the different map uses and apply a compass rose and cardinal directions on a map. Students will conclude their work in this course by learning computer- and text-based research techniques that demonstrate evaluation of trustworthy sources; the ability to use all information from a dictionary; and the knowledge of when to use an atlas, gazetteer, index, and almanac.

## **MS Social Studies B**

MS Social Studies B is a general survey course encompassing five different units. These units will hit highlights within the subjects, with an emphasis on holistic education rather than an in-depth examination. This course is an application of the social studies skills that students learn in Middle School Social Studies A.

## **MS American History A**

MS American History A, the first course of a two-semester series, examines American history from its pre-Columbian beginnings to the development of the United States Constitution. This course explores the decline and fall of native cultures, the gradual decline of influence on America by European monarchies, the American rebellion against England, and the formation of a new American government.

## **MS American History B**

MS American History B, the second course of a two-semester series, examines American history from the Federalist era to the American Civil War. This course explores the development of political parties, the Louisiana Purchase and westward expansion, and the issues that divided the country and ultimately led to the Civil War.

## **MS World Languages**

### **MS French I A**

Students begin their introduction to French with fundamental building blocks in four key areas of world language study: listening comprehension, speaking, reading, and writing. Students are initially trained to recognize key sounds and basic vocabulary, not only in written form but also through ear training that leads quickly to oral production. An ongoing adventure story introduces vocabulary and grammar topics, prompting students to use skills from the four language-learning areas. Students learn fundamental grammar as embedded in authentic spoken language. All new graphics, videos, and games keep students engaged and make learning French exciting. An integrated, game-based reward system keeps learners motivated and eager to progress. Content provided by powerspeak12, Inc.

### **MS French I B**

Students continue their introduction to French with fundamental building blocks in four key areas of world language study: listening comprehension, speaking, reading, and writing. Students are trained to recognize key sounds and basic vocabulary, not only in written form but also through ear training that leads quickly to oral production. An ongoing adventure story introduces vocabulary and grammar topics, prompting students to use skills from the four language-learning areas. Students learn fundamental grammar as embedded in authentic spoken language. All new graphics, videos, and games keep students engaged and make learning French exciting. An integrated, game-based reward system keeps learners motivated and eager to progress. Content provided by powerspeak12, Inc.

### **MS French II A**

In this continuing introduction to French, students deepen their focus on four key skills in world language acquisition: listening comprehension, speaking, reading, and writing. A continuing storyline introduces and reinforces new vocabulary, while activities prompt students to analyze meaning from context and then reproduce new vocabulary items in real-life oral expression. Additional verb tenses and idiomatic expressions are also introduced. As in French I, students learn grammar through supplemental texts supplying traditional charts, tables, and explanations. All new graphics, videos, and games keep students engaged and make learning French exciting. An integrated, game-based reward system keeps learners motivated and eager to progress. Content provided by powerspeak12, Inc.

### **MS French II B**

MS French II B continues the instruction of the first semester course. In this continuing introduction to French, students deepen their focus on four key skills in world language acquisition: listening comprehension, speaking, reading, and writing. A continuing storyline introduces and reinforces new vocabulary, while activities prompt students to analyze meaning from context and then reproduce new vocabulary items in real-life oral expression. Additional verb tenses and idiomatic expressions are also introduced. As in French I, students learn grammar through supplemental texts supplying traditional charts, tables, and explanations. All new graphics, video, and games keep students engaged and make learning French exciting. An integrated, game-based reward system keeps learners motivated and eager to progress. Content provided by powerspeak12, Inc.

### **MS German I A**

Students begin their introduction to German with fundamental building blocks in four key areas of world language study: listening comprehension, speaking, reading, and writing. Students are initially trained to recognize key sounds and basic vocabulary, not only in written form but also through ear training that leads quickly to oral production. An ongoing adventure story introduces vocabulary and grammar topics, prompting students to use skills from the four language-learning areas. Students learn fundamental grammar as embedded in authentic spoken language. All new graphics, videos, and games keep students engaged and make learning German exciting. An integrated, game-based reward system keeps learners motivated and eager to progress. Content provided by powerspeak12, Inc.

### **MS German I B**

Students continue their introduction to German in this second semester course with fundamental building blocks in four key areas of world language study: listening comprehension, speaking, reading, and writing. Students are trained to recognize key sounds and basic vocabulary, not only in written form but also through ear training that leads quickly to oral production. An ongoing adventure story introduces vocabulary and grammar topics, prompting students to use skills from the four language-learning areas. Students learn fundamental grammar as embedded in authentic spoken language. All new graphics, video, and games keep students engaged and make learning German exciting. An integrated, game-based reward system keeps learners motivated and eager to progress. Content provided by powerspeak12, Inc.

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### **MS German II B**

In this second semester continuing introduction to German, students deepen their focus on four key skills in world language acquisition: listening comprehension, speaking, reading, and writing. A continuing storyline introduces and reinforces new vocabulary, while activities prompt students to analyze meaning from context and

then reproduce new vocabulary items in real-life oral expression. Additional verb tenses and idiomatic expressions are also introduced. Students learn grammar through supplemental texts supplying traditional charts, tables, and explanations. All new graphics, video, and games keep students engaged and make learning German exciting. An integrated, game-based reward system keeps learners motivated and eager to progress. Content provided by powerspeakK12, Inc.

### **MS Mandarin I A**

Students use compelling stories, games, videos, and multimedia experiences in this introduction to Chinese. Students learn the elegant simplicity of Chinese grammar and the subtleties of Chinese pronunciation through entertaining lessons that provide a base for conversational ability and listening comprehension. Students build a foundation for reading and writing in the Chinese language through an adaptive technology that lets students choose an approach that works best for them. All new graphics, video, and games keep students engaged and make learning Chinese exciting. An integrated, game-based reward system keeps learners motivated and eager to progress. Content provided by powerspeakK12, Inc.

### **MS Mandarin I B**

Students use compelling stories, games, videos, and multimedia experiences in this continuing introduction to Chinese. Students learn the elegant simplicity of Chinese grammar and the subtleties of Chinese pronunciation through entertaining lessons that provide a base for conversational ability and listening comprehension. Students build a foundation for reading and writing in the Chinese language through an adaptive technology that lets students choose an approach that works best for them. All new graphics, video, and games keep students engaged and make learning Chinese exciting. An integrated, game-based reward system keeps learners motivated and eager to progress. Content provided by powerspeakK12, Inc.

### **MS Mandarin II A**

Students continue with engaging stories, games, videos, and multimedia experiences in this second level of Chinese. Students further their understanding of Chinese grammar and pronunciation through lessons that build on previous conversational ability and listening comprehension. Innovative cultural videos and lessons build awareness of the rich legacy of Chinese culture. Students expand their foundation for reading and writing in Chinese through adaptive technology. This practice provides students with opportunities to generate fun narratives, a range of well-formed sentences that reflect a solid grasp of grammar structures, and a wide vocabulary. All new graphics, video, and games keep students engaged, making learning languages exciting. An integrated, game-based reward system keeps learners motivated and eager to progress. Content provided by powerspeakK12, Inc.

### **MS Mandarin II B**

Building on skills from MS Mandarin II A, students continue with engaging stories, games, videos, and multimedia experiences in this second level of Chinese. Students further their understanding of Chinese grammar and pronunciation through lessons that build on previous conversational ability and listening comprehension. Innovative cultural videos and lessons build awareness of the rich legacy of Chinese culture. Students expand their foundation for reading and writing in Chinese through adaptive technology. This practice provides students with opportunities to generate fun narratives, create well-formed sentences that reflect a solid grasp of grammar structures, and develop a wide vocabulary. All new graphics, videos, and games keep students engaged and make learning Chinese exciting. An integrated, game-based reward system keeps learners motivated and eager to progress. Content provided by powerspeakK12, Inc.

### **MS Spanish I A**

Students begin their introduction to Spanish with fundamental building blocks in four key areas of world language study: listening comprehension, speaking, reading, and writing. Students are initially trained to recognize key sounds and basic vocabulary, not only in written form but also through ear training that leads quickly to oral production. Vocabulary and grammar topics are introduced in an ongoing adventure story that prompts students to use skills from all four language-learning areas. Students learn fundamental grammar as embedded in authentic spoken language. Cultural information covers major Spanish-speaking areas in Europe and

the Americas. All new graphics, videos, and games keep students engaged and make learning Spanish exciting. An integrated, game-based reward system keeps learners motivated and eager to progress. Content provided by powerspeak12, Inc.

### **MS Spanish I B**

Students continue their introduction to Spanish with fundamental building blocks in four key areas of world language study: listening comprehension, speaking, reading, and writing. Students are trained to recognize key sounds and basic vocabulary, not only in written form but also through ear training that leads quickly to oral production. Vocabulary and grammar topics are introduced in an ongoing adventure story that prompts students to use skills from all four language-learning areas. Students learn fundamental grammar as embedded in authentic spoken language. Cultural information covers major Spanish-speaking areas in Europe and the Americas. All new graphics, videos, and games keep students engaged and make learning Spanish exciting. An integrated, game-based reward system keeps learners motivated and eager to progress. Content provided by powerspeak12, Inc.

### **MS Spanish II A**

In this continuing introduction to Spanish, students deepen their focus on four key skills in world language acquisition: listening comprehension, speaking, reading, and writing. A continuing storyline introduces and reinforces new vocabulary, while activities prompt students to analyze meaning from context and then reproduce new vocabulary in real-life oral expression. Additional verb tenses and idiomatic expressions are also introduced. As in Spanish I, students learn grammar through supplemental texts supplying traditional charts, tables, and explanations. Cultural information addresses Spanish as it is used around the globe. All new graphics, videos, and games keep students engaged and make learning Spanish exciting. An integrated, game-based reward system keeps learners motivated and eager to progress. Content provided by powerspeak12, Inc.

### **MS Spanish II B**

Building on abilities developed in MS Spanish II A, this continuing introduction to Spanish helps students deepen their focus on four key skills in world language acquisition: listening comprehension, speaking, reading, and writing. A continuing storyline introduces and reinforces new vocabulary, while activities prompt students to analyze meaning from context and then reproduce new vocabulary in real-life oral expression. Additional verb tenses and idiomatic expressions are also introduced. As in Spanish I, students learn grammar through supplemental texts supplying traditional charts, tables, and explanations. Cultural information addresses Spanish as it is used around the globe. All new graphics, videos, and games keep students engaged and make learning Spanish exciting. An integrated, game-based reward system keeps learners motivated and eager to progress. Content provided by powerspeak12, Inc.

## **HS English**

### **ENGLISH I A**

ENGLISH I A is the first semester of an introductory English course that combines the study of literary genre with a focus on composition skills. Students will learn effective communication skills by focusing on the first four of the 6 + 1 Traits of writing developed by the Northwest Regional Education Laboratories: Ideas, Organization, Sentence Fluency, and Conventions. Students will select from a choice of novels in the first semester.

### **ENGLISH I B**

ENGLISH I B is the second semester of an introductory English course that combines the study of literary genre with a focus on composition skills. Students will learn effective communication skills by focusing on the final three of the 6 + 1 Traits of writing developed by the Northwest Regional Education Laboratories: Voice, Word Choice, and Presentation. Students will read *The Night Thoreau Spent in Jail*. Students will also practice oral communication and learn an introduction to research.

## **ENGLISH II A**

ENGLISH II A, the first course of a two-semester series, is an intermediate English course that combines the study of world literature along with a continued focus on composition skills. The course begins with an overview of thinking skills and literary terms. Students will read, reflect, synthesize, and respond to several different types of world literature, including mythology, *Antigone*, and *House on Mango Street*.

## **ENGLISH II B**

ENGLISH II B, the second course of a two-semester series, is an intermediate English course that combines the study of world literature along with a continued focus on composition skills. The course begins with a short story unit. Students will read, reflect, synthesize, and respond to several different types of world literature, including *Metamorphosis*, poetry, and *An Enemy of the People*. A research paper is a requirement of the course.

## **ENGLISH III A**

ENGLISH III A, the first course in a two-semester series, is a course that explores American literature and the classic American themes and ideals presented in a wide range of both nonfiction and fiction selections. Students will connect their lives to the texts, analyze these texts, and write clearly about them using the writing process. In addition to poetry, short stories, speeches, sermons, and dramas, students will read and analyze John Steinbeck's *Of Mice and Men*.

## **ENGLISH III B**

ENGLISH III B, the second course in a two-semester series, focuses on the art of communication in a number of situations. Students will practice both written and verbal workplace communication and will study the art of persuasion. Students will evaluate media and its impact on history in addition to contemporary issues in American communication. This study will include independent media projects and an independent research project requiring the use of the writing process.

## **ENGLISH IV A**

ENGLISH IV A is the first of a two-semester course in which students will acquire the reading and critical thinking skills necessary for understanding challenging new material. Students will explore analysis of literature and tools for literary research. The course concentrates on analyzing literature with a focus on *Oedipus the King* and writing a research paper.

## **ENGLISH IV B**

ENGLISH IV B is the second of a two-semester course with a concentration on literature from medieval, romantic, and realistic time periods. Students will read and analyze classic works of literature, including *Hamlet*, which contain literary qualities that promote study and analysis.

## **HS Mathematics**

## **ALGEBRA I A**

ALGEBRA I A, the first course in a two-semester series, guides students through units of study that allow them to gain practical mastery in reading, writing, and evaluating mathematical expressions. Students will study topics including numbers, expressions, and equations. In the final first semester unit, students learn to solve functions and linear equations.

## **ALGEBRA I B**

ALGEBRA I B, the second course in a two-semester series, continues to build on students' knowledge as they learn to solve systems of linear equations and inequalities. Assessments include self-check quizzes, audio

tutorials, and interactive games. Students will study units that allow them to gain practical mastery in reading, writing, and evaluating mathematical expressions. Students will study topics including polynomials, factoring, quadratic functions, and radicals. The course concludes with a study of rational expressions.

### **GEOMETRY A**

GEOMETRY A, the first course in a two-semester series, provides students with the logic and basic elements of geometry to solve geometry problems. The course introduces students to inductive and deductive reasoning and proofs. Students study parallel lines and the coordinate plane plus an exploration of rays, angles, and lines. Students will identify and apply the properties of triangles and study the properties of quadrilaterals and polygons.

Prerequisite: ALGEBRA I

### **GEOMETRY B**

GEOMETRY B, the second course in a two-semester series, builds on the logic and basic elements of geometry to examine ratios and proportions. The course includes studies of circles, geometric formulas, solid geometric figures, coordinate geometry, and transformational geometry. Students will be prepared to advance to special topics like Algebra II and trigonometry.

Prerequisite: ALGEBRA I

### **ALGEBRA II A**

ALGEBRA II A, the first in a two-semester course, begins with a review of algebraic properties. Students will study properties and applications of linear and quadratic functions, radical functions, and rational functions. Students will identify how the major topics in algebra relate to real-world applications. Students will also explore exponential and logarithmic functions and trigonometric functions.

Prerequisite: ALGEBRA I

### **ALGEBRA II B**

ALGEBRA II B, the second in a two-semester course, includes the study of systems of equations and inequalities. Students will apply topics in geometry, conic sections, probability and statistics, and patterns of logic and reasoning to real-world applications. The course provides students the opportunity to synthesize all information learned in previous studies of algebra. After successful completion of ALGEBRA II B, students will have the necessary skills to study topics in advanced algebra and trigonometry.

Prerequisite: ALGEBRA I

### **Consumer Math (Mathematics of Finance) A**

Consumer Math (Mathematics of Finance) A focuses on basic math skills used in everyday life with the goal of developing intelligent consumers. Students study the practical applications of math using real-world situations. The course emphasizes personal finances through the study of personal earnings, which includes the practical knowledge and application of pay rates and other elements. Students also identify and calculate benefits, taxes, and deductions from paychecks. Students manage all components of checking and savings accounts as well as explain the concepts of saving money and setting financial goals. Students have the opportunity to analyze and graph business functions and learn about credit and life insurance. Prerequisites: Algebra I, Geometry

### **Consumer Math (Mathematics of Finance) B**

Consumer Math (Mathematics of Finance) B is an extension of Consumer Math (Mathematics of Finance) A and continues the focus on basic math skills used in everyday life with the goal of developing intelligent consumers. The practical applications of math are studied using real-world situations. The course emphasizes personal finances through the study of personal earnings and the elements of business, credit, and life insurance. Prerequisites: Algebra I, Geometry, Consumer Math (Mathematics of Finance) A

### **Trigonometry**

Trigonometry, a one-semester course, prepares students for further studies of mathematical topics in Calculus and Physics. The course begins by teaching students to measure angles in degrees and radians, arc lengths,

and chords. Students then study the basic trigonometric functions, sine, cosine, and tangent, and their inverses as well as the relationships of these functions to chords and right triangles. In addition, students apply their study of trigonometric functions and identities to find angles of elevation and depression and solve right triangles. Prerequisites: Algebra I, Geometry, Algebra II

### **Pre-Calculus**

Pre-Calculus, a one-semester course, covers a variety of topics to prepare students for more advanced calculus courses. The course starts with functions and graphs and moves on to polynomial and rational functions. The course also examines exponential and logarithmic functions, along with trigonometric functions and applications. Students receive introduction to analytic geometry and discrete algebra. The course ends with an introduction to calculus, including lessons on limits, derivatives and integrals. Prerequisites: Algebra I, Geometry, Algebra II, Trigonometry

### **Calculus A**

Calculus A, the first of a two-semester course, centers on limits, differentiation, and applications of differentiation. Topics in this course apply to many problems studied in physics and engineering. Students review algebra concepts and learn fundamental calculus concepts along with working problems for limits and derivatives. Students apply rules for finding different derivatives as well as learn the applications of the derivative. After finding the area under a curve using several different methods, students will complete an essay assignment that applies this to a real-world problem. Students conclude the course by applying theorems and demonstrating knowledge of basic rules for anti-derivatives. After successful completion of this course, students will have a fundamental understanding of the principles of calculus. Prerequisites: Algebra I, Geometry, Algebra II, Trigonometry

### **Calculus B**

Calculus B, the second of a two-semester course, focuses on how to calculate and graph anti-derivatives and integrals as well as how to apply these techniques to real-world problems. In addition, students also study topics in sequences and series. Students find the derivatives of several different functions and apply these derivatives in application problems. They also calculate volume, surface area, and arc length by working with applications of the integral. Finally, students differentiate and integrate multidimensional functions. Prerequisites: Algebra I, Geometry, Algebra II, Trigonometry, Calculus A

## HS Sciences

### **BIOLOGY A**

BIOLOGY A, the first course of a two-semester series, introduces students to general biology and the processes of scientific inquiry and thinking. Students will examine the characteristics and organization of life along with the chemical context of living things, basic atomic structure, and the properties of water. An in-depth study of the structure and function of cells and cellular processes leads to an understanding of the fundamentals of genetics, human heredity, and biotechnology.

### **BIOLOGY B**

BIOLOGY B, the second course of a two-semester series, begins with a study of the origins of life and the classification of living things. Students explore microorganisms, including bacteria, viruses, protists, and fungi. An overview of the plant kingdom with a study of plant structure, function, and reproduction is followed by an examination of the animal kingdom. Students will study the major groups of vertebrates and invertebrates. The course concludes with a study of human biology and populations.

### **PHYSICAL SCIENCE A**

PHYSICAL SCIENCE A is first in a series of two courses designed to introduce students to the study of the nature of things. The course introduces students to the scientific method and inquiry processes. The course

explains lab and field safety along with methods for conducting scientific experiments and communicating results of experimentation. The course leads students to an understanding of the atomic nature of matter, the elements, and the Periodic Table. Students will examine the properties of matter and explore the composition and the behavior of acids and bases. The course concludes with a description of energy and the properties of matter.

### **PHYSICAL SCIENCE B**

PHYSICAL SCIENCE B, the second course in a two-semester series, continues with a study of energy in motion. Students will describe and calculate force, velocity, acceleration, work, and power. The course leads students to understand Newton's laws of motion and guides them in designing simple machines based on the basic principles of physics. The course continues with a study of the generation of electricity and magnetism. The course goes on to cover the forms and properties of waves and the electromagnetic spectrum. Students will study nuclear reactions and the composition and structure of the universe. The course concludes with an examination of the life cycle of a star plus past achievements and future goals for space exploration.

### **EARTH SCIENCE A**

EARTH SCIENCE A, the first course in a two-semester series, is an intense study of geology as a problem-solving science. The course presents an overview of planet earth with an exploration of the solid as a series of interrelated systems. Students will explore minerals plus rocks and the rock cycle. Students will also examine the driving forces behind plate tectonics, the deformation of earth's crust, earthquakes, and volcanoes. The course presents opportunities to examine forces of weathering, including erosion, deposition, glaciers, and deserts. Students will study geologic time, relative age dating, and isotopic dating.

### **EARTH SCIENCE B**

EARTH SCIENCE B, the second course in a two-semester series, begins with an examination of the major principles of hydrology and oceanography. Students will study earth's water systems, including rivers, streams, groundwater, oceans, and coastal processes. The course continues with a study of meteorology, including an examination of earth's atmosphere, weather, and climate. The course leads students to understand the earth, moon, and sun system. The course concludes with a study of the solar system, stars, galaxies, and the universe.

### **Environmental Science A**

Environmental Science A, the first course of a two-semester series, explores the nature of science and the natural world. Students examine environmental issues and learn to make informed decisions using scientific problem solving. Specific topics include ecological interactions, matter and energy flow in ecosystems, biodiversity, characteristics and growth of populations, evolution, succession, biogeochemical cycles, soil and land resources, agriculture, waste management, and characteristics of terrestrial biomes. Recommend Prerequisites: Biology A, Biology B

### **Environmental Science B**

Environmental Science B, the second course of a two-semester series, continues the study of the natural world. Students explore environmental issues and make informed decisions using scientific problem solving. Specific topics include characteristics of aquatic biomes, management of water resources, use of mineral resources and effects of mining, renewable and non-renewable energy resources, atmospheric cycles, climate change, and sustainability. Recommended Prerequisites: Biology A, Biology B

### **Chemistry A**

Chemistry A, the first of a two-semester course, introduces students to the basic concepts of observation, the history of chemistry, and how to reason and use the scientific method. The course also emphasizes the study of matter and energy with focus on identifying differences between states of matter and physical and chemical properties. Fundamental properties of measurement in chemistry along with how to use scientific notation will be introduced early in the course, and these concepts will be reinforced throughout the remaining units. The relation between atomic models and the Periodic Table will be explained along with ways to use

these concepts as tools in the study of chemistry. The remaining units of the course will focus on ions and ionic compounds, molecular compounds, acids and bases, the mole concept, chemical masses, and chemical equations.

### **Chemistry B**

Chemistry B (2007 - 2008) - Chemistry B, the second of a two-semester course, focuses on chemical bonding, molecular geometry and symmetry, Lewis structures, valence shell electron pair repulsion (VSEPR) theory, and resonance structures. In addition, this course introduces thermochemistry, chemical kinetics, and electrochemistry. Along with concepts and definitions, calculation methodology for pH, pOH, and buffering are provided. Key concepts of organic chemistry, nuclear and environmental chemistry, biochemistry, and analytical chemistry are explained. The course ends with a discussion of industrial processes, energy, and careers related to chemistry.

### **Physics A**

The topics covered in this one-semester course include mechanics; oscillatory motion and waves; and electricity, magnetism, and light. Within these topics, students will learn to analyze situations, apply expressions and principles, and understand various concepts and principles.

### **Physics B**

The topics covered in this one-semester course include continued discussion of electricity, magnetism, and light; sound, fluids, gases, and heat; and modern physics, including quantum theory and the Bohr model of the atom. Within these topics, students will learn to analyze situations; write and apply equations; apply situations, principles, and laws; and understand various concepts and principles.

## **HS Social Studies/Sciences**

### **AMERICAN HISTORY A**

AMERICAN HISTORY A is the first course in a two-semester series that surveys the settlement of the continent through the First World War. Students will identify the origins of the United States, analyze significant documents that have impacted the development of the nation, and identify key events and people in the nation's development.

### **AMERICAN HISTORY B**

AMERICAN HISTORY B is the second course in a two-semester series that surveys the history of the United States from the 1920s to the present day. Students will examine issues that have and still affect the nation, both at home and abroad. They will describe the causes and effects of the wars in which the United States has been involved and discuss the United States as a world power.

### **WASHINGTON HISTORY**

Washington State History, a one-semester course, provides a rich study of Washington's history. From Washington's prehistory and the time Plateau and Northwest Coast tribes ruled the area to the more recent effects of big companies like Boeing and Microsoft have on the state, students will gain a deep understanding of the history of the 42nd state.

### **WORLD GEOGRAPHY A**

WORLD GEOGRAPHY A is the first course in a two-semester series which examines a broad range of geographical perspectives. Students will study each region using a similar structure in order to analyze the similarities and differences between each region. Students will understand the meaning of geography through in-depth exploration of North America, Central America, South America, and Western Europe. The themes of geography will guide the exploration of each region (location, place, human-environmental interaction, movement, and region).

## **WORLD GEOGRAPHY B**

WORLD GEOGRAPHY B is the second course in a two-semester series which examines a broad range of geographical perspectives. Students will study each region using a similar structure in order to analyze the similarities and differences between each region. Students will understand the meaning of geography through in-depth exploration of Eastern Europe and Russia, East Asia, Southeast Asia and the Pacific Cultures, Africa, and India and the Middle East. The themes of geography will guide the exploration of each region (location, place, human-environmental interaction, movement, and region).

## **WORLD HISTORY A**

WORLD HISTORY A, the first course of a two-semester series, surveys world history from prehistoric times through medieval civilizations. Students will examine the beginnings of civilization in the ancient East and Nile civilizations; Greek and Roman societies; the Americas; Muslim, African, and Asian cultures; and the European Middle Ages from socio-economic, political, and ideological perspectives. Students will identify how and why people, goods, and ideas migrated throughout global history. They will be able to explain how the geography of a region affected the cultures that arose from it. Students will identify social, political, economic, and ideological conditions of major eras in world history along with the structure of society and family in historical cultures. Students will interpret and analyze statistics and dates from maps, charts, and graphs. They will identify the scientific, technological, and artistic achievements of civilizations. Students will compare and contrast the development of religious and philosophical beliefs and traditions and how they spread, along with early political systems and their effects on modern-day governments.

## **WORLD HISTORY B**

WORLD HISTORY B is the second course in a two-semester series that examines the European Renaissance, New Asian Empires, absolutism, Enlightenment, nationalism, Reform, both World Wars, and the Contemporary period. Students will discuss the impact of European imperialism and colonization, and they will recognize the connection between revolution and reform. Students will identify the effect of industrialization and urbanization on the global economy. They will be able to articulate the relationship between historical occurrences and contemporary situations, and they will predict how contemporary issues will affect future generations.

## **U.S. GOVERNMENT**

U.S. GOVERNMENT is the study of the historical backgrounds, governing principles, and institutions of the government of the United States. Students will study the roots of our Constitution and the principles of our government, such as popular sovereignty, separation of powers, and checks and balances. Individual rights, civil liberties, and the importance and responsibility of participating in a democracy will be examined. Students will compare the U.S. system of government with other modern systems and assess the strengths and problems associated with the U.S. system.

## **ECONOMICS**

ECONOMICS is the study of how societies use limited resources to satisfy unlimited demand. In this one-semester course, students will explore the relationship between suppliers, consumers, governments, and multinational organizations in an effort to better understand how money affects the daily lives of people throughout the world. The course provides students with a clear understanding of how an economy functions at the macro- and micro-levels. A thorough knowledge in these areas will further offer students the tools required to understand how all of this can and will affect their own pocket books. Instrumental to students' understanding will be examination of these key topics: law of supply and demand, saving, borrowing and spending, the Federal Reserve System and money supply, and the role of the government in an open market economy.

**French I A**

Students begin their introduction to French with fundamental building blocks in four key areas of world language study: listening comprehension, speaking, reading, and writing. Students are initially trained to recognize key sounds and basic vocabulary, not only in written form but also through ear training that leads quickly to oral production. An ongoing adventure story introduces vocabulary and grammar topics, prompting students to use skills from the four language-learning areas. Students learn fundamental grammar as embedded in authentic spoken language. All new graphics, video, and games keep students engaged and make learning French exciting. An integrated, game-based reward system keeps learners motivated and eager to progress. Content provided by powerspeak12, Inc.

Note: Students who have already succeeded in Middle School French II should enroll in French II rather than French I.

**French I B**

Students continue their introduction to French in the second part of this course with fundamental building blocks in four key areas of world language study: listening comprehension, speaking, reading, and writing. Students are trained to recognize key sounds and basic vocabulary, not only in written form but also through ear training that leads quickly to oral production. An ongoing adventure story introduces vocabulary and grammar topics, prompting students to use skills from the four language-learning areas. Students learn fundamental grammar as embedded in authentic spoken language. All new graphics, video, and games keep students engaged and make learning French exciting. An integrated, game-based reward system keeps learners motivated and eager to progress. Content provided by powerspeak12, Inc.

Note: Students who have already succeeded in Middle School French II should enroll in French II rather than French I.

**French II A**

In this continuing introduction to French, students deepen their focus on four key skills in world language acquisition: listening comprehension, speaking, reading, and writing. A continuing storyline introduces and reinforces new vocabulary, while activities prompt students to analyze meaning from context and then reproduce new vocabulary items in real-life oral expression. Additional verb tenses and idiomatic expressions are also introduced. As in French I, students learn grammar through supplemental texts supplying traditional charts, tables, and explanations. All new graphics, video, and games keep students engaged and make learning French exciting. An integrated, game-based reward system keeps learners motivated and eager to progress. Content provided by powerspeak12, Inc.

Prerequisite: French I, or equivalent

**French II B**

French II B continues the instruction of the first semester course. In this continuing introduction to French, students deepen their focus on four key skills in world language acquisition: listening comprehension, speaking, reading, and writing. A continuing storyline introduces and reinforces new vocabulary, while activities prompt students to analyze meaning from context and then reproduce new vocabulary items in real-life oral expression. Additional verb tenses and idiomatic expressions are also introduced. As in French I, students learn grammar through supplemental texts supplying traditional charts, tables, and explanations. All new graphics, video, and games keep students engaged and make learning French exciting. An integrated, game-based reward system keeps learners motivated and eager to progress. Content provided by powerspeak12, Inc.

Prerequisite: French I, or equivalent

**French III A**

Intermediate French students who have a strong base in vocabulary, speaking, and listening skills reach a new level of mastery and fluency in this course. Through games and compelling stories, students learn advanced grammar and vocabulary with an emphasis on correct accents and comprehension of real-world na-

tive speech. Error-recognition technology helps students eliminate common mistakes from their speaking and writing. All new graphics, video, and games keep students engaged and make learning French exciting. An integrated, game-based reward system keeps learners motivated and eager to progress. Content provided by powerspeak12, Inc.

Prerequisite: French II, or equivalent

### **French III B**

Intermediate French students who have a strong base in vocabulary, speaking, and listening skills reach a new level of mastery and fluency in this course, which is a continuation of French III A. Through games and compelling stories, students learn advanced grammar and vocabulary with an emphasis on correct accents and comprehension of real-world native speech. Error-recognition technology helps students eliminate common mistakes from their speaking and writing. All new graphics, video, and games keep students engaged and make learning French exciting. An integrated, game-based reward system keeps learners motivated and eager to progress. Content provided by powerspeak12, Inc.

Prerequisite: French II, or equivalent

### **German I A**

Students begin their introduction to German with fundamental building blocks in four key areas of world language study: listening comprehension, speaking, reading, and writing. Students are initially trained to recognize key sounds and basic vocabulary, not only in written form but also through ear training that leads quickly to oral production. An ongoing adventure story introduces vocabulary and grammar topics, prompting students to use skills from the four language-learning areas. Students learn fundamental grammar as embedded in authentic spoken language. All new graphics, video, and games keep students engaged and make learning German exciting. An integrated, game-based reward system keeps learners motivated and eager to progress. Content provided by powerspeak12, Inc.

Note: Students who have already succeeded in Middle School German II should enroll in German II rather than in German I.

### **German I B**

Students continue their introduction to German with fundamental building blocks in four key areas of world language study: listening comprehension, speaking, reading, and writing. Students are trained to recognize key sounds and basic vocabulary, not only in written form but also through ear training that leads quickly to oral production. An ongoing adventure story introduces vocabulary and grammar topics, prompting students to use skills from the four language-learning areas. Students learn fundamental grammar as embedded in authentic spoken language. All new graphics, video, and games keep students engaged and make learning German exciting. An integrated, game-based reward system keeps learners motivated and eager to progress. Content provided by powerspeak12, Inc.

Note: Students who have already succeeded in Middle School German II should enroll in German II rather than in German I.

### **German II A**

In this continuing introduction to German, students deepen their focus on four key skills in world language acquisition: listening comprehension, speaking, reading, and writing. A continuing storyline introduces and reinforces new vocabulary, while activities prompt students to analyze meaning from context and then reproduce new vocabulary items in real-life oral expression. Additional verb tenses and idiomatic expressions are also introduced. As in German I, students learn grammar through supplemental texts supplying traditional charts, tables, and explanations. All new graphics, video, and games keep students engaged and make learning German exciting. An integrated, game-based reward system keeps learners motivated and eager to progress. Content provided by powerspeak12, Inc.

Prerequisite: German I, or equivalent

### **German II B**

In this second semester continuing introduction to German, students deepen their focus on four key skills in world language acquisition: listening comprehension, speaking, reading, and writing. A continuing storyline

introduces and reinforces new vocabulary, while activities prompt students to analyze meaning from context and then reproduce new vocabulary items in real-life oral expression. Additional verb tenses and idiomatic expressions are also introduced. As in German I, students learn grammar through supplemental texts supplying traditional charts, tables, and explanations. All new graphics, video, and games keep students engaged and make learning German exciting. An integrated, game-based reward system keeps learners motivated and eager to progress. Content provided by powerspeak12, Inc.

Prerequisite: German I, or equivalent

### **Latin I A**

This introduction to Latin clarifies the traditionally difficult aspects of the language through vocabulary that follows all standard Latin rules but allows students to tell modern stories connected to a contemporary adventure. Students study familiar vocabulary so they can bring into focus the special characteristics of Latin, notably noun cases and declensions. Students receive ongoing practice in vocabulary and grammar, which leads to the study of both ecclesiastical and secular post-Classical Latin as embodied in the Vulgate Bible and Medieval Latin texts. All new graphics, videos, and games keep students engaged and make learning Latin exciting. An integrated, game-based reward system keeps learners motivated and eager to progress. Content provided by powerspeak12, Inc.

### **Latin I B**

This continuing introduction to Latin clarifies the traditionally difficult aspects of the language through vocabulary that follows all standard Latin rules but allows students to tell modern stories connected to a contemporary adventure. Students study familiar vocabulary so they can bring into focus the special characteristics of Latin, notably noun cases and declensions. Students receive ongoing practice in vocabulary and grammar, which leads to the study of both ecclesiastical and secular post-Classical Latin as embodied in the Vulgate Bible and Medieval Latin texts. All new graphics, videos, and games keep students engaged and make learning Latin exciting. An integrated, game-based reward system keeps learners motivated and eager to progress. Content provided by powerspeak12, Inc.

### **Latin II A**

Students with a foundation in Latin refine their skills through compelling language lessons and historical and cultural studies. Students go from the basics of Latin to a higher level of sophistication through a learning methodology that uses games and stories. Students foster their abilities to read and understand classical Latin (without using a dictionary) from a variety of authentic sources. All new graphics, videos, and games keep students engaged and make learning Latin exciting. An integrated, game-based reward system keeps learners motivated and eager to progress. Content provided by powerspeak12, Inc.

Prerequisite: Latin I, or equivalent

### **Latin II B**

Building on skills from Latin II A, students with a foundation in Latin refine their skills through compelling language lessons and historical and cultural studies. Students go from the basics of Latin to a higher level of sophistication through a learning methodology that uses games and stories. Students foster their abilities to read and understand classical Latin (without using a dictionary) from a variety of authentic sources. All new graphics, videos, and games keep students engaged and make learning Latin exciting. An integrated, game-based reward system keeps learners motivated and eager to progress. Content provided by powerspeak12, Inc.

Prerequisite: Latin I, or equivalent

### **Mandarin I A**

Students use compelling stories, games, videos, and multimedia experiences in this introduction to Chinese. Students learn the elegant simplicity of Chinese grammar and the subtleties of Chinese pronunciation through entertaining lessons that provide a base for conversational ability and listening comprehension. Students build a foundation for reading and writing in the Chinese language through an adaptive technology that lets students choose an approach that works best for them. All new graphics, videos, and games keep students engaged and make learning Chinese exciting. An integrated, game-based reward system keeps learners motivated and eager to progress. Content provided by powerspeak12, Inc.

Note: Students who have already succeeded in Middle School Mandarin II should enroll in Mandarin II rather than in Mandarin I.

### **Mandarin I B**

Students use compelling stories, games, videos, and multimedia experiences in this continuing introduction to Chinese. Students learn the elegant simplicity of Chinese grammar and the subtleties of Chinese pronunciation through entertaining lessons that provide a base for conversational ability and listening comprehension. Students build a foundation for reading and writing in the Chinese language through an adaptive technology that lets students choose an approach that works best for them. All new graphics, videos, and games keep students engaged and make learning Chinese exciting. An integrated, game-based reward system keeps learners motivated and eager to progress. Content provided by powerspeakK12, Inc.

Note: Students who have already succeeded in Middle School Mandarin II should enroll in Mandarin II rather than in Mandarin I.

### **Mandarin II A**

Students continue with engaging stories, games, videos, and multimedia experiences in this second level of Chinese. Students further their understanding of Chinese grammar and pronunciation through lessons that build on previous conversational ability and listening comprehension. Innovative cultural videos and lessons build awareness of the rich legacy of Chinese culture. Students expand their foundation for reading and writing in Chinese through adaptive technology. This practice provides students with opportunities to generate fun narratives, create well-formed sentences that reflect a solid grasp of grammar structures, and develop a wide vocabulary. All new graphics, videos, and games keep students engaged and make learning Chinese exciting. An integrated, game-based reward system keeps learners motivated and eager to progress. Content provided by powerspeakK12, Inc.

Prerequisite: Mandarin I, or equivalent

### **Mandarin II B**

Building on skills from Mandarin II A, students continue with engaging stories, games, videos, and multimedia experiences in this second level of Chinese. Students further their understanding of Chinese grammar and pronunciation through lessons that build on previous conversational ability and listening comprehension. Innovative cultural videos and lessons build awareness of the rich legacy of Chinese culture. Students expand their foundation for reading and writing in Chinese through adaptive technology. This practice provides students with opportunities to generate fun narratives, create well-formed sentences that reflect a solid grasp of grammar structures, and develop a wide vocabulary. All new graphics, videos, and games keep students engaged and make learning Chinese exciting. An integrated, game-based reward system keeps learners motivated and eager to progress. Content provided by powerspeakK12, Inc.

Prerequisite: Mandarin I, or equivalent

### **Spanish I A**

Students begin their introduction to Spanish with fundamental building blocks in four key areas of world language study: listening comprehension, speaking, reading, and writing. Students are initially trained to recognize key sounds and basic vocabulary, not only in written form but also through ear training that leads quickly to oral production. Vocabulary and grammar topics are introduced in an ongoing adventure story that prompts students to use skills from all four language-learning areas. Students learn fundamental grammar as embedded in authentic spoken language. Cultural information covers major Spanish-speaking areas in Europe and the Americas. All new graphics, video, and games keep students engaged, making learning languages exciting. An integrated, game-based reward system keeps learners motivated and eager to progress. Content provided by powerspeakK12, Inc.

Note: Students who have already succeeded in Middle School Spanish II should enroll in Spanish II rather than in Spanish I.

### **Spanish I B**

Students continue their introduction to Spanish with fundamental building blocks in four key areas of world language study: listening comprehension, speaking, reading, and writing. Students are trained to recognize

key sounds and basic vocabulary, not only in written form but also through ear training that leads quickly to oral production. Vocabulary and grammar topics are introduced in an ongoing adventure story that prompts students to use skills from all four language-learning areas. Students learn fundamental grammar as embedded in authentic spoken language. Cultural information covers major Spanish-speaking areas in Europe and the Americas. All new graphics, video, and games keep students engaged, making learning languages exciting. An integrated, game-based reward system keeps learners motivated and eager to progress. Content provided by powerspeakK12, Inc.

Note: Students who have already succeeded in Middle School Spanish II should enroll in Spanish II rather than in Spanish I.

### **Spanish II A**

In this continuing introduction to Spanish, students deepen their focus on four key skills in world language acquisition: listening comprehension, speaking, reading, and writing. A continuing storyline introduces and reinforces new vocabulary, while activities prompt students to analyze meaning from context, and then to reproduce new vocabulary in real-life oral expression. Additional verb tenses and idiomatic expressions are also introduced. As in Spanish I, students learn grammar through supplemental texts supplying traditional charts, tables, and explanations. Cultural information addresses Spanish as it is used around the globe. All new graphics, video, and games keep students engaged, making learning languages exciting. An integrated, game-based reward system keeps learners motivated and eager to progress. Content provided by powerspeakK12, Inc.

Prerequisite: Spanish I, or equivalent

### **Spanish II B**

Building on abilities developed in Spanish II A, this continuing introduction to Spanish helps students deepen their focus on four key skills in world language acquisition: listening comprehension, speaking, reading, and writing. A continuing storyline introduces and reinforces new vocabulary, while activities prompt students to analyze meaning from context and then to reproduce new vocabulary in real-life oral expression. Additional verb tenses and idiomatic expressions are also introduced. As in Spanish I, students learn grammar through supplemental texts supplying traditional charts, tables, and explanations. Cultural information addresses Spanish as it is used around the globe. All new graphics, video, and games keep students engaged and make learning Spanish exciting. An integrated, game-based reward system keeps learners motivated and eager to progress. Content provided by powerspeakK12, Inc.

Prerequisite: Spanish I, or equivalent

### **Spanish III A**

Intermediate Spanish students who have a strong base in vocabulary, speaking, and listening skills reach a new level of mastery and fluency in this course. Through games and compelling stories, students learn advanced grammar and vocabulary, with an emphasis on correct accents and comprehension of real-world native speech. Error-recognition technology helps students eliminate common mistakes from their speaking and writing. All new graphics, video, and games keep students engaged and make learning Spanish exciting. An integrated, game-based reward system keeps learners motivated and eager to progress. Content provided by powerspeakK12, Inc.

Prerequisite: Spanish II, or equivalent

### **Spanish III B**

Intermediate Spanish students who have a strong base in vocabulary, speaking, and listening skills reach a new level of mastery and fluency in this course, which is a continuation of Spanish III A. Through games and compelling stories, students learn advanced grammar and vocabulary, with an emphasis on correct accents and comprehension of real-world native speech. Error-recognition technology helps students eliminate common mistakes from their speaking and writing. All new graphics, video, and games keep students engaged and make learning Spanish exciting. An integrated, game-based reward system keeps learners motivated and eager to progress. Content provided by powerspeakK12, Inc.

Prerequisite: Spanish II, or equivalent

## Diagnostic & Intervention

### **TuneUp Reading ® (MS/HS)**

TuneUp Reading ® is a one-semester, customizable program designed to meet the needs of individual students over the full reading spectrum. Each student begins the program by taking a diagnostic prescriptive that places the student at an appropriate starting point in the program. Within the program, each student gains comprehension, vocabulary, and fluency skills by reading age-appropriate stories and performing vocabulary exercises. The design of TuneUp Reading ® specifically helps native Spanish speakers learn to read in English using the program's optional Spanish audio instructions. TuneUp Reading ® not only helps the low-literacy student, it enhances the reading skills of the traditional student and prepares college bound students to succeed on entrance exams.

Content provided by Failure Free Reading®

### **Mathematics Intervention**

Advanced Academics' Mathematics Intervention program for grades 4 through 7 is designed for students in need of an intensive review of critical standards necessary to be proficient at grade level. The AAMI is available online in a customizable format that can be tailored to individual students' needs. The AAMI includes six units of study which address the major mathematical themes found in the elementary grades.

### **Algebra Readiness**

Advanced Academics' Algebra Readiness program is designed for students in need of an intensive review of critical standards necessary to be prepared to enter Algebra I. The AAAR is available online in a customizable format that can be tailored to individual students' needs. The AAAR includes core pre-algebra and algebra topics, as well as topics addressing fundamental mathematical skills.

## Test Prep

### **English Proficiency Exam – OverPass (HS)**

The English/Language Arts portion of the OverPass series addresses academic content standards through early high school. Students initially complete a diagnostic test of both multiple-choice questions and a writing task to identify weaknesses. Students are then provided with individual lesson plans to help improve their English/Language Arts skills. Upon completion of the lesson plan, several mastery examinations are available to reassess and restructure a student's lesson plan for more studying. The reading topics that are covered within this course include word analysis and fluency, vocabulary development, informational reading, and literary response and analysis. The writing portion covers writing strategies, applications, and conventions. Within the writing portion, students must generate a response to literature, an informational passage, or writing prompt. Each of the English/Language Arts exams covers 27 objectives and includes 72 multiple choice items and 1 written response item.

### **Math Proficiency Exam – OverPass (MS)**

The Middle School Mathematics portion of the OverPass series addresses the academic content standards from middle school and basic geometry. Students initially complete a diagnostic test of multiple-choice questions to identify weaknesses. Students are then provided with individual lesson plans to help improve their math skills. Upon completion of the lesson plan, several mastery examinations are available to reassess and restructure a student's lesson plan for more studying.

### **Math Proficiency Exam – OverPass (HS)**

The Mathematics portion of the OverPass series addresses the academic content standards from middle

school mathematics through Algebra I and basic geometry. Students initially complete a diagnostic test of multiple-choice questions to identify weaknesses. Students are then provided with individual lesson plans to help improve their math skills. Upon completion of the lesson plan, several mastery examinations are available to reassess and restructure a student's lesson plan for more studying. Some basic topics included within this course are number sense, computational skills with decimals, fractions, percents, basic statistics, data analysis and probability, measurement, mathematical reasoning, and many algebra and geometry applications. The Math exam covers 53 objectives and includes 80 multiple-choice items.

## Mastery & Placement

### **Mastery and Placement**

Advanced Academics offers additional flexibility for its core curriculum content through opportunities for Mastery and Placement examinations. Our Mastery Exam program, also known as Credit By Exam, uses the final semester exams from our core content courses to assess students on their mastery of the required content objectives for each semester course. Depending on your local district and/or state policies, students who score high enough on the exams may be granted credits. Our Placement Exam program provides the opportunity to assess a student's readiness or already mastered content prior to taking an online course. The Placement Exam program uses a set of prescriptive diagnostic exams to assess and then provide a prioritized Lesson Plan for each student. The Placement Exam program is available for a number of our core high school courses. For more information about the Mastery and Placement Exam programs, please contact Advanced Academics.