

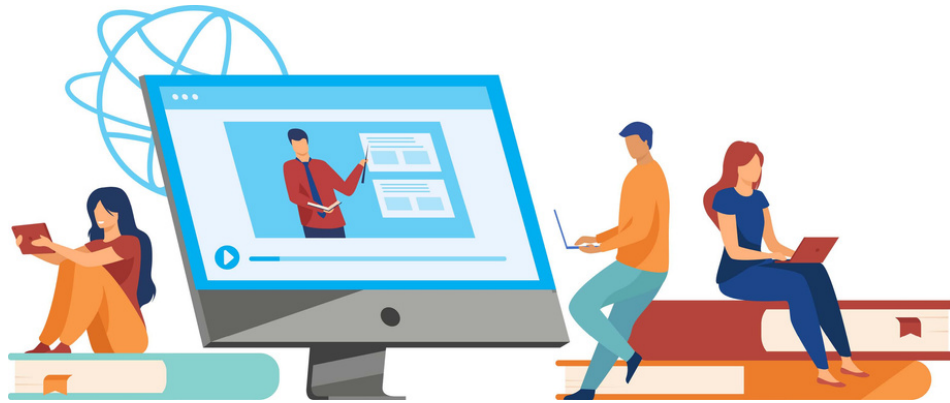
EdisonLearning Core and Elective eCourses



2023-2024

Digital Learning Solutions and Services

EdisonLearning as your learning services provider



With over a decade of experience in successful virtual and blended learning programs, EdisonLearning helps districts establish a school environment that promotes student learning and success, including a full and rich curriculum and the ongoing training and professional development of high-performing administrators and teachers.

For our complete solution catalog, talk to your EdisonLearning representative.



Core and Elective eCourses

We provide eCourse content, delivery, and certified instructors for more than 150 different core and elective courses, grades 6–12.



Career and Technical Education

Our career-focused eCourse curriculum offers pathways to prepare students for industry certifications, engage in career exploration, and learn about new technologies.



Social-Emotional Learning

Our Social-Emotional Learning and Soft Skill Development course helps students develop the skills and resiliency to feel better, accomplish more, and create the life they want.



Game Learning

Our game learning curriculum gives students an interactive and engaging way to connect with their academic content.



Professional Learning Courses

We offer expert-designed, product-agnostic learning solutions to address the needs of school staff regardless of the software, content, or other resources schools are using.



Instructional & Student Support Services

Our certified virtual teachers and advisors provide students with a fully supported learning environment.

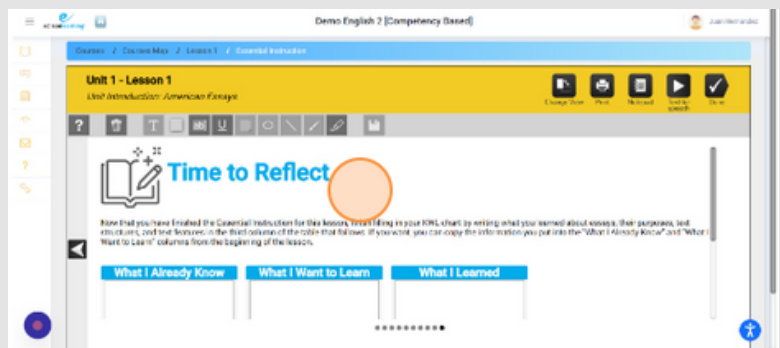
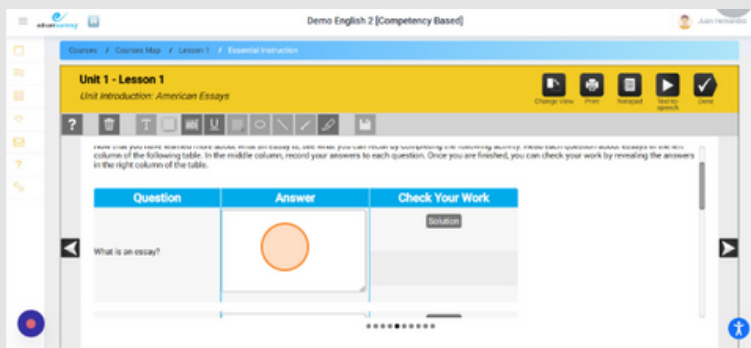
Core and Elective eCourses



We provide eCourse content, delivery, and certified instructors for more than 150 different core and elective courses, grades 6–12.

Course Features

EdisonLearning eCourses® include a host of interactive multimedia features that support the diverse needs of students as well as reinforce key concepts in the curriculum. Features such as interactive demonstrations, interactive games, videos, and labs make courses engaging and support learning. Not only can students work at their own pace and focus on the learning components of each lesson that resonate with their own particular learning style, but online courses also require that students demonstrate mastery of the current lesson's assessment in order to advance to the next lesson.



Instructional Design

Developed by highly qualified instructional designers and certified teachers based on best practices in online learning, EdisonLearning eCourses® are built upon proven methodologies to deliver engaging and effective instruction.


The courses are self-guided, enabling students to complete coursework at their own pace, while being fully supported by EdisonLearning teaching staff. The course structure is based on a modular design with lessons limited to one or two standards to help students maintain focus and motivation. Students accomplish achievable goals in each lesson, a technique which fosters success in online learning.

EdisonLearning has Quality Matters certification for a number of courses, notated by the QM logo.

CORE AND ELECTIVE COURSES FOR GRADES 6–12

Middle School Curriculum

Middle School English

Language Arts 6th Grade
Language Arts 7th Grade
Language Arts 8th Grade 


Middle School Social Studies

Social Studies 6th Grade
Social Studies 7th Grade
Social Studies 8th Grade
World History
United States History
Civics

Middle School Science

Science 6th Grade
Science 7th Grade
Science 8th Grade
Earth Science
Life Science
Physical Science

Middle School Mathematics


Mathematics 6th Grade
Mathematics 7th Grade
Mathematics 8th Grade 
Middle School Algebra

Middle School Electives

Art History and Appreciation
Health and Fitness
Internet Safety
Music Theory and Appreciation
Physical Education
Problem Solving
Study Skills

High School Curriculum



High School English

English 1
English 2
English 3 
English 4
Informational and Persuasive Writing
Critical Concepts
SAT® Critical Reading and Writing


High School Social Studies

American History
Early American History
Early World History
Economics
Economics with Financial Literacy
Macroeconomics
Microeconomics
Psychology
Sociology
US Government
World Geography
World History

High School Science

Anatomy and Physiology
Application of Genetics
Astronomy
Biology
Biotechnology
Chemical Engineering
Chemistry
Earth Science 
Electrical Engineering
Environmental Science
Epidemiology
Forensics
Foundations of Engineering
Genetics
Introduction to Technological Sciences
Life Science
Mechanical Engineering
Natural Disasters
Physical Science 
Physics
Sports Medicine
Sports Science
Sports Science and Medicine
Stem Cells
Superstars of Science
Technologies in Medicine

High School Mathematics

Algebra 1 
Algebra 1 Critical Concepts
Algebra 2
Calculus
General Math
Geometry
Integrated Math 1
Integrated Math 2
Integrated Math 3
Integrated Math 4
Pre-Algebra
Pre-Calculus
Probability
SAT® Mathematics
Statistics
Trigonometry

High School World Languages

French 1
French 2
French 3
French 4
German 1
German 2
Spanish 1 
Spanish 2
Spanish 3
Spanish 4

High School Electives

Advanced Music Theory
Art History & Appreciation
Career Explorations
Computer Engineering
Computer Skills for Academic Success
Fitness
Health
Health and Wellness
Internet Safety
Life Skills
Music Theory and Appreciation
Personal Finance
Physical Education
Science of Computing
Your Career and Money

Course Types

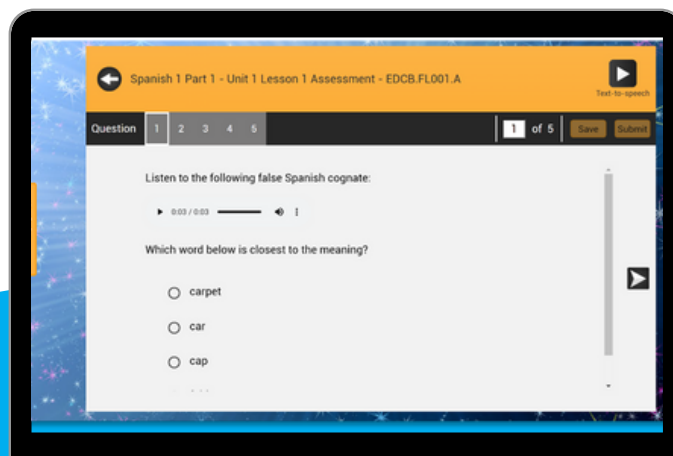
The EdisonLearning eCourses® catalog offers 6–12th grade online courses in core and elective subject areas that can be used for full virtual, credit recovery, alternative education, supplemental, or enrichment programs. EdisonLearning eCourses® are available in multiple course types to meet the needs of each learner and program.

Competency Based	A self-paced solution for students to demonstrate mastery of the concepts of a lesson before they are able to progress to the next lesson. These courses provide a self-remediating performance monitoring system.
Credit Recovery	Developed as truncated versions of their corresponding Competency-Based eCourses, these courses still require students to demonstrate mastery of the concepts addressed in a lesson before progressing to the next set of objectives. Comprehensive quizzes and unit exams ensure that students are rigorously assessed on all concepts in the course.
Foundation	Foundation eCourses contain fewer lessons than Competency-Based eCourses and are designed to prepare students to control their own learning while ensuring that students master the foundational skills and knowledge that are critical building blocks for upper-level courses.
Honors	Students are pushed to apply their understanding of the concepts in each lesson to rigorous performance-based assessments, projects, and conceptual activities. These courses are the perfect fit for students wishing to extend their understanding of a particular subject.
Critical Concepts	This course type is designed to address key skills and is perfect for boot camps or intensive remediation. The content meets students where they are, offering skills reinforcement, remediation on essential concepts they haven't yet mastered, or a subject matter refresher before students enter a higher-level math or ELA course.
Project Based	This engaging curriculum challenges students to demonstrate mastery through action projects.
Electives	Standard elective courses are available as well as social emotional learning content and certification pathway career courses.

Assessment Types

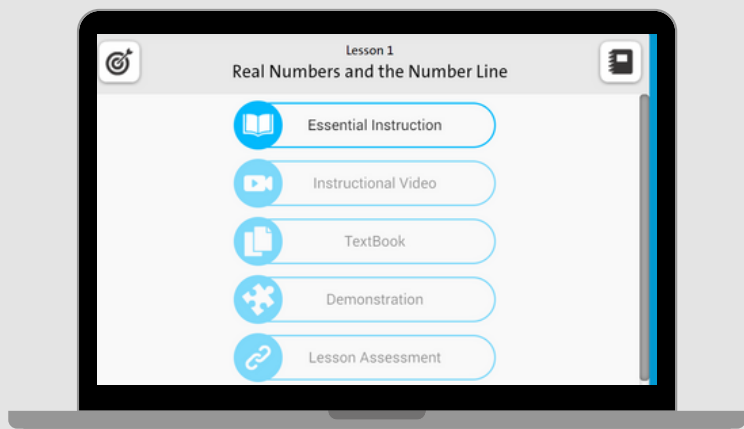
Students are evaluated through multiple assessment types, and the resulting data empowers educators to plan responsive instruction and academic interventions. EdisonLearning eCourses® include both system-graded and teacher-graded assessments with a variety of technology-enhanced question types and activities at varying levels of rigor.

Lesson Assessment	This assessment appears at the end of a lesson and tests the student's mastery of the objectives for the lesson. Lesson assessments are typically system-graded.
Quiz	This summative assessment appears at designated points throughout the course to test the student's understanding of multiple lessons and objectives. Quizzes may consist of system- or teacher-graded questions, or a combination of both.
Review	This summative assessment appears at the end of a unit or part and is meant to help students review the content before completing a summative quiz or exam. Review assessments are typically system-graded.
Exam	This summative assessment appears at the end of a unit or part and tests the student's mastery of all the concepts for that portion of the course. Exams may consist of system- or teacher-graded questions, or a combination of both.
Writing/Speaking/Project Assignments	These assessments appear at designated points throughout the course and ask the student to demonstrate their understanding of the concepts through written, spoken, or project-based work. These assessment types may consist of system- or teacher-graded questions, or a combination of both.
Participation Assignments	These assessments appear at designated points throughout the course. Students are scored based on their completion of the assignment rather than its accuracy.



Middle School eCourses

Developed for students in grades 6–8, Middle School eCourses encourage students to interact with and respond to lesson content. Students can access drawing tools to underline, highlight, and circle key terms and important concepts. They can also respond to questions posed within lessons. Lesson assessments are delivered as games to reduce test anxiety. Supplemental materials, such as workbooks, offer students opportunities to synthesize material from the lessons via fun, low-stress puzzles and activities.



The MyDay content delivery system was designed as the result of targeted research with middle school students. Students are provided with a personalized forced progression of learning objects through their daily task lists. Mastery settings are available at an institution and student level to ensure that students have demonstrated success with the objectives of each lesson before moving on to the next. Students are assessed regularly through a variety of games and traditional summative assessments.

Course Learning Objects	
Lesson Video	The video contains information that will help to strengthen knowledge of the lesson content and focuses on key subject-specific information.
Essential Instruction	The main content of the lesson is found here. Students are encouraged to complete the embedded exercises by using interactive drawing and text tools.
Reteach	The Reteach page clarifies and further explains the information found in the Essential Instruction area.
Enrichment	The Enrichment page encourages students to take their thinking beyond the content of the lesson.
Hear More, See More, Do More	Students are directed to resources that address the content using different modalities.
Activities Workbook & Answer Key	Activities Workbook & Answer Key – Workbooks contain foundational activities and puzzles such as word searches, crosswords, and matching exercises related to the lesson’s content.
Assessments	Students are delivered their daily assessments in an interactive, visually stimulating game format. Summative assessments, such as quizzes and exams, are given in a conventional test format.
Instructor Guide	Designed for the teacher, this document reviews all of the lesson elements and provides teachers with extended activities to complete with students.

Middle School eCourse Details

ELA

Course Name	Length	Course Type(s)
Language Arts 6th Grade	Year	Competency Based and Credit Recovery
Language Arts 7th Grade	Year	Competency Based and Credit Recovery
Language Arts 8th Grade <small>QM</small>	Year	Competency Based and Credit Recovery

Social Studies

Course Name	Length	Course Type(s)
Social Studies 6th Grade	Year	Competency Based and Credit Recovery
Social Studies 7th Grade	Year	Competency Based and Credit Recovery
Social Studies 8th Grade	Year	Competency Based and Credit Recovery
World History	Year	Competency Based
Civics	Year	Competency Based
United States History	Year	Competency Based

Science

Course Name	Length	Course Type(s)
Science 6th Grade	Year	Competency Based and Credit Recovery
Science 7th Grade	Year	Competency Based and Credit Recovery
Science 8th Grade	Year	Competency Based and Credit Recovery
Earth Science	Year	Competency Based
Life Science	Year	Competency Based
Physical Science	Year	Competency Based

Math

Course Name	Length	Course Type(s)
Mathematics 6th Grade	Year	Competency Based and Credit Recovery
Mathematics 7th Grade	Year	Competency Based and Credit Recovery
Mathematics 8th Grade <small>QM</small>	Year	Competency Based and Credit Recovery
Middle School Algebra	Year	Competency Based

Elective

Course Name	Length	Course Type(s)
Art History and Appreciation	Semester	Competency Based
Health and Fitness	Semester	Competency Based
Internet Safety	9-Week	Competency Based
Music Theory and Appreciation	Semester	Competency Based
Physical Education	Year	Competency Based
Problem Solving	9-Week	Competency Based
Study Skills	9-Week	Competency Based

Middle School Course Descriptions

English Language Arts

Language Arts 6th Grade

Students read to enhance their understanding of different genres and to enhance their own writing. Students practice the writing process in each part of the course as they plan, organize, compose, and edit four projects: a brief narrative essay about a personal hero, a piece of creative fiction, an essay analyzing a poem, and a research project. As they read the coming-of-age novel *Roll of Thunder, Hear My Cry*, by Mildred D. Taylor, students focus on the elements of fiction and examine elements of the author's craft. In a tour of folktales, students embark on a journey to South America, Africa, Asia, the Middle East, and even ancient Greece and Rome. Students are introduced to several types of poetry, learn to recognize poetic devices, evaluate the effectiveness of a poet's message, and, ultimately, compose their own poetry. As they explore nonfiction and informational texts, students build on concepts they learned in the elementary grades to develop higher-level critical thinking skills. A study of advertising and persuasive techniques helps students become more informed consumers. Students strengthen speaking and listening skills through predicting, questioning, summarizing, clarifying, and synthesizing. Students learn to work collaboratively, incorporate multimedia in their presentations, and present their findings in unique, effective ways.

Language Arts 7th Grade

Students read and analyze literature from poetry to novels and folklore to myth, using what they learn to enhance their own writing. The course begins with the steps of the writing process, which includes identifying parts of speech and using them correctly and effectively. A study of writing style focuses on slang, sentence variety, and transitions. Students learn how characters, setting, and plot contribute to literary fiction as they identify and explain these components and use them creatively in their own narrative essays. Reading poetry allows students to focus on figurative and descriptive language, which they apply to writing descriptive essays. Students also learn about the themes and characteristics of myth and folklore. A study of nonfiction focuses on research and organization as students produce objective informational essays. Students learn active reading and research skills that enable them to recognize bias and the techniques of persuasion in different genres, including biographical writing, then write persuasive essays based on their own beliefs or opinions.

Language Arts 8th Grade



Students continue their exploration of various genres, using active reading techniques such as note-taking and drawing conclusions from texts. Students review the steps of the writing process, making connections between the stages of writing, the genre they are studying, and a well-formed final product. To prepare students for writing narrative essays, lessons focus on plot, theme, and historical setting. Writing reflective and persuasive essays based on their own thoughts and ideas allows students to demonstrate their individuality. Solid research and understanding of organizational methods and visual features provide the foundation for writing informational essays. After improving their ability to recognize biased language, students write persuasive essays to express their own opinions. Students then look at the unique characteristics of poetry, myth, and folklore, and discover the conventions of playwriting and how drama employs the elements of fiction.



Middle School Course Descriptions

Social Studies

Social Studies 6th Grade

Making sense of the unique and fascinating places in the world requires a broad range of knowledge and skills. Students explore how Earth's geography has affected human life and culture as they learn about the development of early civilizations in Asia and the Mediterranean. Students examine the great religious traditions born during this time, witness the growth of dynasties in the Far East, and learn about the ideas that spawned the Renaissance. As the world became caught up in the excitement of the Age of Exploration, the Americas were "discovered", although vibrant and thriving civilizations had existed there for thousands of years. Students learn about the struggles of these native civilizations, the slaves who were brought to build a new nation, and independence movements in the western world. The issues addressing modern nations include trade, migration, urbanization, and human rights. In an exploration of recent history, students learn about dictators and witness revolutions in Europe, the Middle East, and the Americas. In the final section of the course, students study the impact of globalization and the technology driving it.

Social Studies 7th Grade

History, government, economics, sociology, geography, and anthropology all come together to show how modern culture arose from ancient and classical civilizations. Beginning with the New Kingdom of Egypt, students witness the growth of ancient civilizations into the classical empires that gave rise to medieval Europe. They discover how feudal Europe moved toward the Renaissance, and how its ideals of humanism and constitutional government ignited the scientific revolution and the Protestant Reformation. Students study the development of spirituality in the Middle East, the growth of dynasties in the Far East, and the formation of Mesoamerican civilization. As students learn about the development of modern nations and their quest for overseas colonies, they see how the competition for colonies and extreme nationalism led to international conflicts, including the Seven Years War and the Cold War. Students discover how the American political identity has evolved through developments including the Industrial Revolution, the labor and progressive movements, the struggle for civil rights, the economics of a modern society, and the dawn of the Information Age.

Social Studies 8th Grade

Students focus on the history of North America and, in particular, the history of the United States. Before Europeans knew that North America existed, indigenous civilizations thrived throughout the continent. Students learn how colonial life led to early attempts at self-government and how European influence continues to this day. As they witness the expansion of US borders, students discover how the desire for land and resources led to the removal of native populations, wars with neighbors, and annexations. Students see the impact of civil war and witness the struggle of slavery and America's emergence as an industrial powerhouse. In their study of the twentieth century, students trace the reasons for and outcomes of the civil rights movement and consider the role of the United States as a world power.

Middle School Course Descriptions

Social Studies

World History

World history takes students on a journey through human history, beginning with the geographic features that gave rise to early humans and continuing into the modern globalized world. Students examine the development of civilizations from multiple perspectives and assess the ways in which civilizations have interacted over time, in order to understand the inner workings of modern life.

Civics

Civics exposes students to the fundamentals of civic life in America. This course offers a comprehensive historical timeline of American government, beginning with colonial times and moving through modern issues. The course also enables students to examine key foundational principles and documents of the nation. In the latter parts of the course, large scale issues such as international relations and local topics such as community health and safety are analyzed. By the end of this course, students will better understand the history and context of American democracy as well as their own roles as citizens.

United States History

United States history is a broad survey of the nation's history, beginning with the interaction between First Nations peoples and early European settlers and continuing into the twentieth century. Students assess key events, ideas, and people who have shaped the nation and the world, focusing on key themes, including conflict between groups, geographic and economic expansion, and the emergence of the United States as a global power. In this course, students will become better acquainted with their own history in all its complexity.



Middle School Course Descriptions

Science

Science 6th Grade

Scientists make exciting observations and learn amazing facts about the world. Harnessing students' natural curiosity and ability to observe, Science 6th Grade surveys a variety of scientific disciplines through interactive activities and media-rich content. Students begin to explore scientific processes by creating and testing hypotheses. They learn to design experiments and analyze the results. Students also examine the connections between science and technology. They begin their survey of sciences by looking at life science, in which they examine the basic building block of life, the cell, and how cells come together to make larger organisms. Students compare the structure and processes of different organisms and how those organisms interact in an ecosystem. They finish by looking at one organism, the human body. The next part of the course focuses on physical science. Students examine the structure of matter and the forces that cause its motion. They also explore the forms of energy and how energy changes from one form to the other. Finally, students explore Earth science, examining the structure of Earth and the processes that shape it. They study the processes that affect an area's weather and climate, including the forces that are causing climate change. Students compare natural disasters, learn which disasters are most likely to affect their local area, and find out how to prepare for disaster emergencies. Finally, students explore Earth's place in the universe alongside the other objects.



Science 7th Grade

This course brings together some of the most fascinating sciences—general, physical, earth, and life sciences—essential for investigating the world. After learning common measurement systems and the essentials of lab safety, students are ready to apply the scientific method to everyday situations such as a broken lamp or a hungry dog. Students learn about matter and energy, and about electromagnetic waves and the electromagnetic spectrum, focusing on the properties of visible light. Earth itself becomes the focus as students study the different geologic eras in Earth's history, the parts of the planet, and phenomena including earthquakes and volcanoes. Delving into Earth's past, students examine the fossil record and discover the clues it provides about the histories of numerous species and how they adapted to their environments. Students learn how species change over time through mutation and natural selection. Finally, students explore food webs, the roles of different organisms in an ecosystem, and the reasons that preserving Earth's limited natural resources through conservation efforts are imperative.

Science 8th Grade

This course focuses on both the large and small: the smallest structures – the atoms and cells that make up the living and nonliving world around us; and the largest systems – the cycles of the natural world, the interaction of energy and matter, classical mechanics, and the celestial objects throughout the universe. Beginning with classification systems, students learn about the elements and the structure of atoms. Students apply what they learn about temperature scales, the difference between temperature and heat, and chemical reactions to the study of energy and ways matter can change. This understanding of chemistry helps students in their next phase of study: cell function, the life-giving functions of photosynthesis and respiration, the biology of their own bodies, and the genetics that make each living being unique. The focus widens again as students explore classical mechanics: Newton's Three Laws of Motion and the Law of Universal Gravitation. Students then apply classical mechanics to planetary motion, the effects of the Moon, travel beyond Earth, and the most up-to-date discoveries about the universe.

Middle School Course Descriptions

Science

Life Science

This course introduces students to the subject of biology and the structures and functions of living things. The course begins with instruction in the scientific method and the tools used to study tiny living things. The cell is the basic building block of life, so students will examine unicellular organisms and how the structures of the cell carry out the functions of life, including photosynthesis and respiration. The cells combine into tissues, organs, and systems. Students will discover the systems of the human body. The course then moves into a discussion of the basics of genetics. Finally, students learn about the various forms of life on Earth and how they interact in ecosystems.

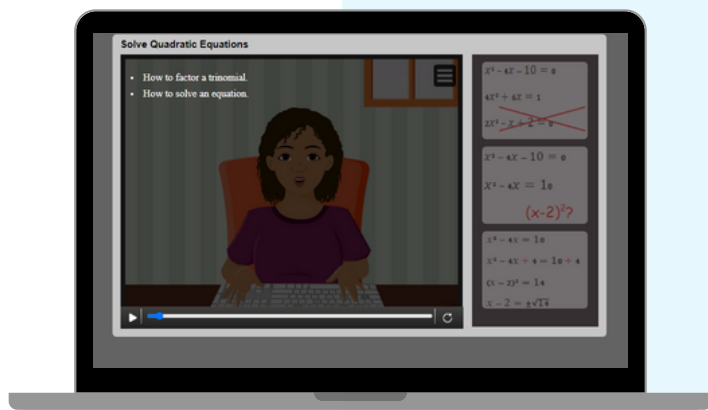


Physical Science

An interactive and engaging course that introduces students to the sciences of chemistry and physics. The course begins with a unit on the nature of science and a review of measurement. Students will explore the principles of experimental design. Students apply these skills to the science of physics by describing the concepts of motion, force, work, and energy. Students apply their knowledge of these topics through problems, explanations, graphs, and virtual lab activities. The course proceeds with the study of chemical principles, exposing students to topics such as the properties of matter, the structure of the atom, the formation of bonds, and the properties of solutions. They will examine how humans apply these processes in using resources and the pollution that often results.

Earth Science

This course explores how a number of sciences affect the processes on Earth and in space. In this interactive and engaging course, students study air, water, and the processes that shape the physical world, as well as how human civilization has impacted the balance of nature. Students will begin by learning the method of studying the natural world called the scientific method. Students learn about the modern science behind topics such as continental drift, fossil dating, the cause of the seasons, natural disasters, ocean ecosystems, and alternative energy sources. Students will also examine how human activity affects natural processes and the ways that impact can be reduced. At the end of this course, students have an understanding of and appreciation for earth science and a solid foundation for future science studies.



Middle School Course Descriptions

Mathematics

Mathematics 6th Grade

Each skill provides a stepping stone to the next. Students learn how to find the prime factors of composite numbers, then use this ability to work with fractions. They use ratios and rates in a number of applications, including converting between English and metric measurements, determining unit rates, and finding unit prices. To build a foundation for learning algebra, students study the properties of addition and multiplication and the order of operations. Students then use these concepts as they write, evaluate, and factor algebraic expressions. After they learn to solve single-variable one- and two-step equations and inequalities, students extend their knowledge by graphing the solutions on number lines and the coordinate plane. The exploration of two dimensions continues as students work with plane polygons, classify shapes, and solve for shapes' perimeters and areas. Students learn to transform two-dimensional figures by translating, rotating, and reflecting both figures and graphs of equations, then move on to solid figures. Finally, students delve into statistics as they identify, interpret, and construct various data; solve for and interpret measures of center including mean, median, and mode; and use those measures to analyze data and construct appropriate data displays, which they can apply to a wide range of situations in other subject areas.

Mathematics 7th Grade

This course teaches skills essential to adult life and lays the groundwork for future mathematics classes. Students learn to apply their work with rational numbers and integers to everyday situations. Students convert words to expressions and vice versa, using equations and inequalities as problem-solving tools. They compute tax, percentage of error, commission, and interest by using rates, ratios, and proportions; graph ordered pairs; and graph and write linear equations. Their work with simple figures—triangles, angles, circles, quadrilaterals, and polygons—focuses on finding areas and perimeters. Students then move on to scale drawings and composite figures composed of simple figures, and compute the volumes and surface areas of solids including prisms, cylinders, pyramids, cones, and spheres. Students collect data and use graphs, charts, and diagrams to read, interpret, and display the data—and they also learn how graphs can be misleading. Students apply the study of sampling and populations to applications involving probability, likely and unlikely outcomes, permutations, combinations, and compound events. Students learn to represent these concepts by using Venn diagrams and charts, tools they will encounter in other courses.

Mathematics 8th Grade



This course helps students see the power of mathematics in everyday life. The course begins with a review of percentages and proportions, applying these concepts to conversion factors and emphasizing English and metric measurements. Work with linear equations includes computing rates of change, finding intercepts, graphing linear functions, and describing the action of a line. Number patterns and sequences foster a study of arithmetic and geometric means as students learn to find missing terms in sequences. An investigation of the Cartesian plane teaches students how to work with scale drawings, dilations, and graphs. Students learn about the properties of triangles, the Pythagorean theorem, and the properties of parallel lines cut by a transversal. With pie charts, bar graphs, histograms, scatter plots, and other linear models, students explore probability and make predictions and correlations. Students apply the concepts of independent and dependent events, odds, combinations, permutations, and factorials to situations from playing cards to determining the number of different outfits they have in their closets.

Middle School Algebra

How do you write, simplify, and solve equations? How can you display data so it can be easily interpreted and understood? In Algebra, students learn how to translate phrases into expressions, and sentences into equations and inequalities, expressing them in their simplest forms. Students find solutions to equations by graphing them on number lines or on the coordinate plane. Students learn the value of finding the best tool for the job as they acquire different strategies to use in various situations, such as finding the slope of a line, solving a system of equations or inequalities, or factoring polynomials. Building on this knowledge, students apply transformations to polynomial functions, explore inverses and one-to-one functions, and examine exponential and logarithmic functions. Work in statistics includes organizing and analyzing data; making stem-and-leaf plots; finding mean, mode, and median; making box-and-whisker plots; and recognizing misleading graphs. At the completion of this course, students are prepared for additional math courses in middle and high school.

Middle School Course Descriptions

Electives

Art History and Appreciation

Where do artists find their inspiration? How can you tell a Rembrandt from a Renoir? Art History and Appreciation surveys artwork and architecture from different periods in human history. Students learn how artists use their abilities to observe and interpret reality and create unique artistic styles and works. Part 1 focuses on the art and architecture in Europe, Africa, and the Americas, while Part 2 moves east to Asia and Oceania. In each part of the course, students note the development of different art movements, the variation in artistic techniques, and the influence of significant artists and designers. Lessons explain the tools, skills, and techniques artists use to create their works. Students also learn how to differentiate between art movements in significant periods of history. At the end of this course, students can recognize different artistic styles, movements, and techniques, and identify specific pieces of artwork by period and origin.

Music Theory and Appreciation

Have you ever wondered why some notes sound great together and others don't? Or how musicians translate the symbols of sheet music into the music you hear? Music theory—the study of how music works—is essential to any aspiring composer or performer. Students develop their knowledge through listening exercises, drawing and identifying notation, creating basic compositions, and analyzing music samples. In the second part of the course, students focus on music appreciation as they survey the development of music, beginning in ancient Greece and ending with modern western music. Students learn how to distinguish music from different periods and describe how music relates to its historical, cultural, and social context. By the completion of this course, students have a strong foundational understanding of music, preparing them to learn how to play an instrument or continue to more advanced music studies.

Health and Fitness

What does it mean to be healthy? What are the steps for creating or improving a healthy lifestyle? This course helps students take charge of their own well-being by providing up-to-date information about physical activity, nutrition, and overall health. Students learn the importance of setting goals, recognizing peer pressure, making good decisions, and resolving conflicts. Students learn about the benefits of exercise and physical activity, and how to avoid unhealthy behaviors. Activities are designed to help students understand nutrition, analyze food labels, and develop an appropriate exercise plan. Students learn how physical activity affects different body systems and about key exercise concepts including cross-training, overload, and flexibility. Students become more familiar with the systems of their bodies, learn about common ailments, and examine the importance of self-esteem and emotional well-being in creating overall health.

Physical Education

This course combines online instruction and student participation in daily physical activities. Students will learn how to engage in warm-up, aerobic, and cool down activities. They will learn how to set goals and fitness plans to reach those goals. Students will be empowered to make positive choices, along with encouragement to develop positive habits in fitness, wellness, and movement. The students will learn many aspects of individual and team sports. They will learn about injury prevention, nutrition, diet and stress management. This course will help the student understand the value of a lifetime of physical activities.



Middle School Course Descriptions

Electives

Internet Safety

Why take safety measures when using the Internet? What are the differences between interacting in the real world and interacting in a virtual world? In Internet Safety, students think critically about what constitutes appropriate behavior online and expand the range of their online interactions. This course begins by identifying safety precautions for communicating online, sharing content responsibly, keeping accounts safe, and preventing identity theft and viruses. Students learn to identify appropriate online behavior and compare and contrast real and virtual citizenship. The course defines cyberbullying and encourages students to consider its consequences, and to report those who engage in the behavior. Lessons also include explanations of phishing, plagiarism, copyright terms, and fair use. The course ends by explaining how to recognize quality websites for research, safely use social networking sites, and buy and sell items online.

Problem Solving

This course provides students with a fundamental overview of problem solving. Students learn George Pólya's four steps to problem solving and identify the best strategies for solving particular problems, such as determining how long it will take to save enough money for a new video game system, how to choose the best transportation option, or what to do when the computer crashes and a term paper is due. The course also covers advanced concepts such as finding patterns and using inductive reasoning – even using algebraic techniques for solving real-world problems. After completing this course, students will have the confidence to tackle any type of problem, from a challenging math activity to losing a set of keys.

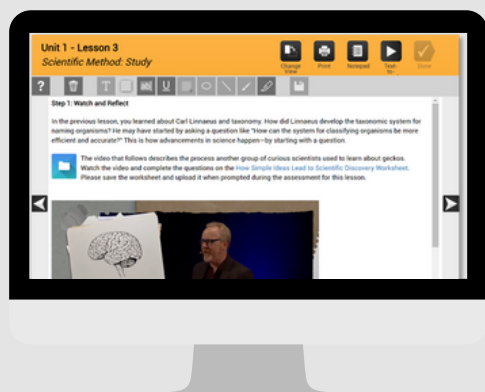
Study Skills

Why are study skills important? What methods and techniques can students use to support studying, limit distractions, and prevent procrastination? The Study Skills course helps students develop a program to manage their study time, enhance their concentration, and accomplish their goals. Topics include identifying causes of study-related stress; techniques for relieving stress; the pros and cons of studying alone and in study groups; and improving reading comprehension, reading fluency, writing, and note-taking. The course concludes with strategies for preparing for tests and reducing test anxiety, leaving students well-prepared to meet their academic challenges.



High School eCourses

Developed for students in grades 9–12, High School eCourses encourage students to interact with and respond to lesson content. Students can access drawing tools to underline, highlight, and circle key terms and important concepts. They can also respond to questions posed within lessons. Supplemental materials, such as textbooks, offer students opportunities to synthesize material from the lessons.



Course Player is an engaging and interactive content delivery system that is used for our High School eCourses. The Course Player requires that students interact with content and assessments in a personalized forced progression of learning objects. Mastery settings ensure that a student has succeeded with the objectives of a lesson before the next lesson is unlocked. Students are provided with additional learning objects when needed.

Course Learning Objects

Need to Know	Presents prerequisite information and summarizes information related to the given lesson.
Essential Instruction	Delivers direct instruction of the lesson concepts.
Textbook & Answer Key	Provides supplementary information related to the concepts covered in the Essential Instruction.
Reteach	Reviews the concepts covered in the Essential Instruction.
Instructional Video	Presents the concepts from the Essential Instruction through a different mode of learning.
Extension	Presents enrichment activities related to the Essential Instruction concepts, to extend the students' thinking.
Assessments	Assess the concepts covered in the course through a variety of assessment types, including lesson assessments, quizzes, writing assignments, speaking assignments, project assignments, and exams.
Gizmos®	Provide additional interactive simulations in some math and science lessons to power inquiry and understanding of the concepts in the lesson. Each Gizmo includes both a manipulative activity and corresponding formative assessment items.
Reading Guides	Provide a combination of comprehension and critical thinking questions that guide students through assigned reading in a lesson.

High School eCourse Details



Denotes NCAA Approval

English Language Arts Courses

Course Name	Length	Course Type(s)				Assessment Type	
		Competency Based	Credit Recovery	Foundation	Honors	Diagnostic	Progress
English 1	Year	✓	✓	✓	✓		✓
English 2	Year	✓	✓	✓	✓		✓
English 3	Year	✓	✓	✓	✓		✓
English 4	Year	✓	✓	✓	✓		✓
Informational and Persuasive Writing	9-Week					✓	✓
SAT Critical Reading and Writing	9-Week	✓					



Social Studies Courses

Course Name	Length	Course Type(s)				Assessment Type	
		Competency Based	Credit Recovery	Foundation	Honors	Diagnostic	Progress
American History	Year	✓	✓	✓	✓	✓	✓
Early American History	9-Week	✓				✓	✓
Early World History	9-Week	✓				✓	✓
Economics	Year	✓	✓				
Economics with Financial Literacy	Semester	✓					
Macroeconomics	Semester	✓					
Microeconomics	Semester	✓					
Psychology	Semester	✓					
Sociology	Semester	✓					
US Government	Year	✓	✓	✓		✓	✓
World Geography	Year	✓	✓			✓	✓
World History	Year	✓	✓	✓		✓	✓

High School eCourse Details

 Denotes NCAA Approval











Science Courses

Course Name	Length	Course Type(s)				Assessment Type	
		Competency Based	Credit Recovery	Foundation	Honors	Diagnostic	Progress
Anatomy and Physiology	Year	✓ 	✓				
Application of Genetics	Semester	✓					
Astronomy	9-Week	✓ 					
Biology	Year	✓ 	✓	✓		✓	✓
Biotechnology	9-Week	✓ 					
Chemical Engineering	9-Week	✓ 					
Chemistry	Year	✓ 	✓	✓		✓	✓
Earth Science 	Year	✓ 	✓	✓		✓	✓
Electrical Engineering	9-Week	✓ 					
Environmental Sciences	Semester	✓ 					
Epidemiology	9-Week	✓					
Forensics	9-Week	✓ 					
Foundations of Engineering	Year	✓					
Genetics	9-Week	✓ 					
Introduction to Technological Sciences	9-Week	✓					
Life Science	Semester	✓ 					
Mechanical Engineering	9-Week	✓ 					
Natural Disasters	9-Week	✓ 					
Physical Science 	Year	✓ 	✓	✓		✓	✓
Physics	Year	✓ 	✓			✓	✓
Sports Medicine	9-Week	✓					
Sports Science	9-Week	✓					
Sports Science and Medicine	Semester	✓					
Stem Cells	9-Week	✓ 					
Superstars of Science	9-Week	✓					
Technologies in Medicine	Semester	✓					

High School eCourse Details

 Denotes NCAA Approval












Mathematics Courses

Course Name	Length	Course Type(s)				Assessment Type	
		Competency Based	Credit Recovery	Foundation	Honors	Diagnostic	Progress
Algebra 1 	Year	✓ 	✓	✓	✓ 	✓	✓
Algebra 1 Critical Concepts	9-Week					✓	✓
Algebra 2	Year	✓ 	✓	✓	✓ 	✓	✓
Calculus	Year	✓ 	✓			✓	✓
General Math	Year	✓	✓			✓	✓
Geometry	Year	✓ 	✓	✓	✓	✓	✓
Integrated Math 1	Year	✓ 	✓			✓	✓
Integrated Math 2	Year	✓ 	✓			✓	✓
Integrated Math 3	Year	✓ 	✓			✓	✓
Integrated Math 4	Year	✓ 	✓			✓	✓
Pre-Algebra	Year	✓	✓	✓		✓	✓
Pre-Calculus	Year	✓ 	✓			✓	✓
Probability	9-Week	✓ 					
SAT Mathematics	9-Week	✓					
Statistics	9-Week	✓ 					
Trigonometry	9-Week	✓ 				✓	✓

High School eCourse Details

 Denotes NCAA Approval

World Language Courses

Course Name	Length	Course Type(s)				Assessment Type	
		Competency Based	Credit Recovery	Foundation	Honors	Diagnostic	Progress
French 1	Year	✓ 	✓				
French 2	Year	✓ 	✓				
French 3	Year	✓ 					
French 4	Year	✓ 					
German 1	Year	✓ 	✓				
German 2	Year	✓ 	✓				
Spanish 1 	Year	✓ 	✓	✓			
Spanish 2	Year	✓ 	✓	✓			
Spanish 3	Year	✓ 					
Spanish 4	Year	✓ 					

Elective Courses

Course Name	Length	Course Type(s)				Assessment Type	
		Competency Based	Credit Recovery	Foundation	Honors	Diagnostic	Progress
Advanced Music Theory	Semester	✓					
Art History & Appreciation	Semester	✓					
Career Explorations	9-Week	✓					
Computer Engineering	9-Week	✓					
Computer Skills	Semester	✓					
Fitness	Semester	✓					
Health	Semester	✓					
Internet Safety	9-Week	✓					
Life Skills	Semester	✓					
Music Theory & Appreciation	Semester	✓					
Personal Finance	9-Week	✓					
Physical Education	Year	✓					
Science of Computing	9-Week	✓					
Your Career and Money	Year	✓					

High School Course Descriptions

English

English 1

In English 1, students learn and practice the foundational skills that they will need to be successful throughout their high school English Language Arts education. Throughout this course, students examine different genres of fiction, including a coming-of-age novel, an assortment of short stories, a variety of poetry, and a Shakespearean play. As students read these texts, they explore characters who face life-changing experiences, consider the literary techniques that authors use to enhance their writing, and analyze how culture relates to literature. Additionally, students learn about aspects of nonfiction writing, such as the author's purpose, text structures, text features, and rhetorical techniques, while reading a variety of articles and speeches. As students read the texts in English 1, they will complete corresponding writing and presentation projects which allow them to demonstrate mastery of the content and skills they are learning. By the end of the course, students will have a strong grasp of how fiction and nonfiction authors convey their perspectives, as well as how writing and speaking can impact change.

English 2

English 2 offers students a chance to discover and analyze a diverse selection of literature from around the world, with a focus on how the themes and central ideas of the pieces relate to their own lives. Throughout the course, students will learn more about various cultures, how their own experiences relate to those of others, and the importance of exploring works written by authors from diverse backgrounds. Students will read and evaluate a variety of fiction texts, including epic poetry, adaptations of classical literature, short stories, a novel, and a play. Additionally, students will explore aspects of nonfiction writing in different types of works including essays, persuasive speeches, and a historical novel. As students read the texts in English 2, they will complete corresponding writing and presentation projects which allow them to demonstrate mastery of the content and skills that they are learning. By the end of the course, students will have a strong grasp of how authors convey unique perspectives, as well as how historical and cultural influences can impact world literature.

English 3 QUALITY MATTERS QM

This course gives students the opportunity to explore the American identity by reading American texts that span the period from the late eighteenth century through the late twentieth century. During this journey through American literature, students will examine a variety of texts, including documents, speeches, poems, short stories, and novels. As they read these texts, students learn about the themes, characteristics, and concepts that delineate the American identity and examine how literature both reflects and defines these ideas. This work culminates in a project in which students research the American literary canon throughout history and then choose a modern text that they believe should be part of the literary canon. By the end of the course, students should be able to describe the defining characteristics of American literature and explain how those characteristics have evolved over time.

English 4

Students look critically at the world around them by reading a range of texts that explore past and present social, political, and cultural issues. As they read, students are challenged to analyze how central ideas and themes are crafted and presented, assess the author's purpose for writing, and consider how to break down and evaluate information in a thoughtful manner. Throughout this course, students will think about how people see the world from different perspectives while also considering the common themes, hardships, and triumphs that unite humanity.

What I Already Know	What I Want to Learn	What I Learned

High School Course Descriptions

English

Informational and Persuasive Writing Critical Concepts

Writing is a foundational skill that is used not only in English classes, but across all subject areas. In this course, students will hone their writing skills as they study and practice the writing process and writing skills related to expository and persuasive writing. For each type of writing, students will learn how to choose appropriate topics, generate ideas and research questions, find and evaluate credible sources, outline their papers, compose a first draft, and revise and edit their writing to create polished final products. They will also apply general writing skills, such as creating a formal style and objective tone, utilizing transitions, and applying the rules of MLA formatting. This course is designed to help students refine and practice the expository and persuasive writing skills they will need to be successful in their high school English courses.

SAT Critical Reading and Writing

This course is designed to help students prepare for the critical reading and writing portions of the SAT. In addition to test-taking strategies, students learn reading comprehension strategies, including inferring ideas, understanding tone and intention, and identifying the meaning and crucial elements in a piece of writing. Students also learn about comma usage, case, identifying and creating complete sentences, and writing concise sentences with subject-verb agreement. Finally, students learn how to apply correct grammatical structure to sentences, recognize and understand modifiers and idioms, and develop a piece of writing in response to an essay question.



High School Course Descriptions

Social Studies

American History

This course takes students on a journey through the key events that have shaped America as a nation, from the end of the Civil War in 1865 to the height of the Cold War in 1980. The journey begins with Reconstruction, a period of great transition and opportunity to heal a broken nation. Students witness the great migration westward and explore how the Industrial Revolution and waves of immigration fueled the flames of the American spirit. The course details the challenges America faced and how equality was elusive for populations of Native Americans, African Americans, immigrants, and women. Students learn how the core values of the founding fathers eventually prevailed and led to the women's suffrage and civil rights movements. The course closely examines the impact of war, with units covering the role of the United States in World War I, World War II, the Korean War, and the Vietnam War. Throughout their journey, students encounter the great political, industrial, military, and human rights leaders who shaped America into a beacon of hope.

Early American History

This course provides students with a comprehensive and engaging look at early American history from the impact of the early Spanish explorers through the Civil War. Students learn about key events of European exploration and colonization of the Americas. Students learn about the establishment of the United States as an independent country, the importance of the US Constitution, and the impact of the Constitution on the continued development of the country. At the completion of this course, students have both a knowledge of and appreciation for the early history of the United States.

Early World History

Starting at the dawn of civilization and arriving at the doorstep of the Renaissance, Early World History introduces students to the major events that laid the foundations of the modern world. This course exposes students to the development of the world's early civilizations and the cultures that created them. Students experience the rituals of the Aztecs, the might of the Roman legions, and the building of the Great Wall of China. From these ancient beginnings, students trace the development of empires, the emergence of the world's major religions, and the mechanisms of trade and conflict that brought cultures together. Thematically, the course focuses on how empires have interacted to spread goods, ideas, and technological innovations such as silk and gunpowder. The course traces major events from ancient Mesopotamia through the Black Death of the fourteenth century, preparing students to explore more recent world history in future courses.

Economics

A comprehensive survey of the ways in which human decisions impact the world every day. Microeconomic concepts including supply and demand, business transactions, the fundamentals of work, and others offer students a glimpse into the effect of personal economic decisions upon the world. Macroeconomic concepts such as the fiscal policy of governments, trade, natural resource use, and other big picture topics offer a more broad view of the world's economic systems. In its entirety, this course illuminates the ways in which people from around the world are connected to one another and their natural surroundings every day.

Economics with Financial Literacy

This course examines elements of personal finance through the lens of economic principles. Students explore financial concepts and processes that they will encounter throughout their lives such as personal credit, debt management, budgeting, taxes, and other essential aspects of personal financial wellness. While working through these concepts and others, students gain an understanding of their own role in an ever-changing economy.

Macroeconomics

This course deals with the economies of nations and regions. Students will learn how these economies function and measure up against one another by exploring concepts including gross domestic product (GDP), unemployment rates, and price indices. At the end of this course, students will be able to understand the world economy and recognize the events and people who have contributed to the understanding of macroeconomics.

High School Course Descriptions

Social Studies

Microeconomics

This course gives students the ability to learn about the structure of economics and how it affects world events and people's everyday lives. Upon completing this course, students have a better understanding of personal finance, the role and process of taxation, and the risks and rewards of investment. The course discusses the need for economic systems, examines the concepts of supply and demand and consumer theory, and evaluates past and present occupation trends. Students compare the mixed economies of various nations; learn about traditional, command, and market economies; and examine the role of government in regulating the economy.

Psychology

In this course, students discover how their senses, perceptions, emotions, and intelligence influence the way they think, feel, and learn. In this course, students learn about the field of psychology, including the concepts and tools used to assess intelligence, sensation and perception, memory, motivation and emotion, and learning. At the end of this course, students gain both knowledge of and appreciation for psychology and how it affects everyone.

Sociology

The field of sociology explores the development, dynamics, and structure of societies and society's connections to human behavior. Sociology examines the ways in which groups, organizations, communities, social categories (such as class, sex, age, or race), and various social institutions (such as kinship, economic, political, or religious) affect human attitudes, actions, and opportunities. In this course, students learn about the concepts and tools used to understand individuality, social structure, inequality, family structure, education, economics, politics, and social change.

US Government

This stimulating course offers students a comprehensive examination of the US government. Students explore the evolution of American democracy, from its birth in the eighteenth century to the expansive role of federal, state, and local governments today. The course covers topics such as changes to the Constitution, the function of the Supreme Court, the structure of Congress, and the importance of the media. The course explores the relationship between the political parties and lobbyists, and the process of monitoring and funding federal elections. Students investigate the roles of state and local governments and their impact on citizens' daily lives. At the end of this course, students have a knowledge of and appreciation for the workings and history of the US government and its impact on American society.

World Geography

This course explores the world's geographical divisions and the differences between Earth and the other planets in the solar system. In addition to Earth's geographical divide, the course explores how the cultural divide between countries impacts international relations. Through the study of geography, students analyze energy usage and explore ways to make the most of the planet without abusing its resources. The study of world geography through historical, cultural, physical, and economic lenses offers students a different perspective and understanding of the world.

World History

In World History, students will explore the changes created by the events and people of the past, and understand how these changes impacted modern times. The material is organized sequentially, exploring history from 1400 CE to the present day. Starting with the Renaissance and Reformation, the course will highlight the cultural, economic, political, and social impact of innovation and intellectual thought. Further changes will be uncovered with the French Revolution, the Industrial Revolution, and the rise of imperialism and nationalism. The closing topics emphasize global conflicts and diplomacy, as seen in World War I, World War II, and the Cold War. Upon completion of the course, students have an appreciation for the patterns of historical change and the impact upon modern society.

High School Course Descriptions

Science

Anatomy and Physiology

Why is the human body so complex? How do all the different structures of the body work together? In Anatomy and Physiology, students survey the different systems of the human body, with an emphasis on the relationship between structure and function. The course begins by teaching the language of anatomy and familiarizing students with the building blocks of the human body: cells and tissues that combine to create the complex organs and support structures of the body. Students get to know their bodies inside and out, from the skin that covers and protects the entire body to the skeleton and the attached muscles that provide support and create movement. Moving deeper inside, students explore the cardiovascular, respiratory, urinary, and digestive systems, which work together to supply the body with nutrients and rid it of wastes. Students also learn how the nervous and endocrine systems respond to the environment and maintain a state of balance. Students study the reproductive system as they follow the development of a human from a single-celled zygote to a mature adult. Interwoven throughout many lessons is information about genetic diseases, dysfunctions, and ailments, such as diabetes, HIV, and arthritis. By the end of this course, students will feel as if they have read the owner's manual for their bodies.

Application of Genetics

This course introduces the students to the field of genetics, where they learn about the theories of Mendel, Darwin, and Wallace. They will learn how traits are passed down from one generation to another. They will explore concepts of adaptation, genotype, and phenotype; and basic concepts related to cells, DNA, and RNA. Students see how the basic concepts are applied in various techniques, including metagenomics, genetically modified organisms, DNA technologies, genetic testing, and other clinical and nonclinical applications of genetics. Students will also examine how the genetic code present in all cells can be used to treat conditions. They will study the ongoing research into the usage of stem cells.

Astronomy

In this course, students take a fascinating journey through the cosmos and learn basic concepts in the study of astronomy. The course begins with the celestial objects closest to home, scanning the solar system to provide students with an overview of the planets, moons, asteroids, and comets that revolve around the Sun. The course then moves beyond the solar system to cover the characteristics of our galaxy, the Milky Way. Students may be amazed to learn about the sheer size of this system and other galaxies nearby, and about the formation and death of stars, supernovas, black holes, and theoretical wormholes. Finally, the course reaches to the edges of time and space to investigate the properties of the universe as a whole, as students learn about theories explaining the beginning of existence and the expansion of the universe. Students also learn about Einstein's theory of relativity, time travel, and the search for extra-solar planets.

Biology

The science of Biology is large, complex, and constantly changing. This course provides students with a broad and interactive experience covering the main topics of biological science. Topics range from cell reproduction to the diversity of life. Students also learn about the chemical components of life, the process of energy conversion, and life's functions. The course explores genetics and evolution, incorporating the latest scientific research. Finally, the course covers ecology to raise students' awareness of the many challenges and opportunities in the modern biological world. Throughout the course, students complete lab activities that reinforce the material and provide the opportunity to apply their knowledge through interactive experiments and activities.



High School Course Descriptions

Science

Biotechnology

This course provides students with a comprehensive and engaging look at the field of biotechnology. Students explore the history of biotechnology and advances in the field, as well as basic information about biotechnology laboratories and careers. Students learn about chemistry; the units of measurement used in biotechnology; and the biology of the cell, DNA, RNA, and proteins. The course concludes with a survey of the applications of biotechnology in the research lab and in industry, including enzymes, techniques, and plasmids.

Chemical Engineering

This course offers students a comprehensive and engaging look at the field of chemical engineering. Students learn the basic concepts used in chemical engineering, including systems of units, the periodic table of the elements, molecules, compounds, bonding, temperature, and pressure. Students explore chemical systems and reactions, including stoichiometry, open and closed systems, multiple-component systems, and chemical reactions. Finally, students study gases and gas laws, pressure, systems, energy, and enthalpy. At the end of this course, students have gained a knowledge of and appreciation for chemical engineering and its growing importance in today's society.

Chemistry

This course shows the importance of science and challenges students to apply their studies in previous sciences to new theories, models, and problems. The course begins with a discussion of the history and importance of chemical principles; moves through the various models of the atom and chemical reactions; explores relationships among liquids, gases, and solids; and investigates the role of energy in these relationships. The course ends with a unit on organic chemistry, a branch of the science that focuses on the molecules that are important to living things. Lab activities throughout the course reinforce the material and provide an opportunity for students to apply their knowledge through hands-on experiments and activities.

Earth Science

This course explores how a number of sciences, including geology, physics, chemistry, and biology impact the world and universe around us. In this interactive and engaging course, students study air, water, and the physical processes that shape the physical world, and how human civilization has affected the balance of nature. Students learn about the modern science behind topics from the Earth's history, such as continental drift, ice ages, fossil dating, and geological timescale. Students will also look at processes that affect life today, such as weathering and erosion, the rock cycle, weather patterns, and climate. They will explore regular phenomena, the cause of the seasons and natural disasters. The students will examine the formation, acquisition and use of natural resources, as well as alternative energy sources. The students will also look at Earth as a small part of a larger universe in an exploration of astronomy. They will examine the Solar System and the stars and galaxies beyond it.

Electrical Engineering

In this introduction to electrical engineering, students learn about electrical engineering concepts including electricity, circuits, energy, work, power, the components of circuits, and some simple applications of electricity. Students explore basic circuit concepts, including series and parallel circuits, laws of electricity, and how circuits are used. At the end of this course, students have a knowledge of and appreciation for the field of electrical engineering and its many applications.

Environmental Science

This course is sometimes referred to as Ecology and is the study of the relationships and interdependence of organisms and their connection to the nonliving, or abiotic, factors in the natural world. This course provides students with a profile of the living relationships, abiotic factors, human influences, and current state of Earth's ecosystems. The course begins with a review of science as a process and the general components of Earth's structure that impact life. It then progresses through a study of the living groups and their relationships to one another, focusing on the balance achieved by nature through these relationships. The course explores populations and provides examples of unchecked growth and rapid extinction in the context of their effects on ecosystems. The course dedicates a unit to aquatic ecosystems and organisms, and the results of human impact. After covering the influence of energy extraction, production, and use, the course ends by examining the positive influence humans can have on the environment through conservation and sound management practices.

High School Course Descriptions

Science

Epidemiology

Epidemiologists investigate the causes of disease and other public health problems in an effort to prevent them from spreading. This course introduces students to the field of epidemiology, including the basic concepts related to infectious diseases, specializations in epidemiology, and study design. Students learn about the specific parts of an epidemiology study and their importance, including types of sampling, selection bias, standardization, confidence intervals, and evidence-based research.

Forensics

This engaging course introduces students to the field of forensics through a comprehensive look at related careers, laboratories, crime scene processing, evidence, and the impact of media on criminal investigations and trials. Students learn about specific techniques used in crime scene investigations, including autopsy, fingerprint analysis, DNA fingerprinting, and other types of evidence and analysis important to solving crimes. At the end of the course, students are introduced to a variety of specialized forensic sciences, analyze specific case studies, and learn about the Innocence Project and Freedom Project.



Foundations of Engineering

Science provides the world with knowledge of the natural world. Scientists determine many principles that explain how the world works. Engineering on the other hand is more concerned with solving problems faced by society. Engineers develop products, machinery, or devices that society needs for their daily life, or create the processes that make those products. In the Foundations of Engineering course, the student will learn the basic principles of four fields of engineering, chemical, mechanical, electrical, and computer engineering. Chemical engineering focuses on the creation of processes used to make foods, health and beauty aids, etc. Mechanical engineering deals with the creation of machinery that make work easier, or that support heavy loads. Electrical engineering covers the creation of products that use electricity to function. Computer engineering is one of the newest engineering fields and develops new hardware and software used in computers.

Genetics

Through this introduction to the field of genetics, students learn about the theories of Darwin and Wallace; the concepts of adaptation, genotype, and phenotype; and basic concepts related to cells, DNA, and RNA. Students study Gregor Mendel's pioneering work in genetic variation and the basic concepts that have been developed as a result of his findings. Finally, students explore applications of genetics, including metagenomics, genetically modified organisms, DNA technologies, genetic testing, and other clinical and nonclinical applications of genetics.

Introduction to Technological Sciences

In this course, students learn about three main fields of technological science: engineering, biotechnology, and information technology. The first unit of the course surveys 15 distinct sub-fields of engineering, exploring the science background, real-world applications, and career opportunities in fields including aerospace, nuclear, and software engineering. In the second unit, students study cutting-edge biotechnology topics such as gene therapy, bioengineered crops, and biodegradation. The final unit focuses on the study of informational technology, covering computer networking, data storage, and data encryption for secure communications.

High School Course Descriptions

Science

Life Science

This survey of the biological sciences introduces students to the structure and function of living things and the natural relationships that exist on Earth. The course begins with the definition of life and a discussion of how living things are classified and organized by scientists. Students then work through material that presents the molecular building blocks of organisms, both microscopic and macroscopic views of life, the diversity and universality of species, and the characteristics of various groups of life. The course culminates with a unit on evolution, asking students to apply what they have learned about the natural world to the complex relationships and environmental factors that have shaped the ever-changing species sharing the world today.

Mechanical Engineering

This course introduces students to the field of mechanical engineering and its many applications in the world today. Students learn basic mechanical engineering concepts, including systems of units, vectors, forces, moments, force systems, couples, and equilibrium problems. Students explore the methods of joints and sections, define centroids, explain distributed loads and centers of mass and axes, and state the Pappus–Guldinus theorems. The course concludes with lessons about dry friction, beams, cables, load distribution, pressure, and potential energy. At the end of this course, students have a knowledge of and appreciation for the field of mechanical engineering and its importance in today's society.

Natural Disasters

Natural disasters can strike almost anywhere, at nearly any time. This course provides an overview of the different types of catastrophic forces of nature and their impact on the populations that they strike. The course gives students a greater understanding of the causes and effects of natural disasters; students also investigate what can be done to prevent such disasters. The first unit covers land-based events, detailing how scientists predict and react to avalanches, earthquakes, volcanic eruptions, mudslides, and fires. The second unit focuses on catastrophic events that begin in the ocean and atmosphere, describing the impact of flooding, hurricanes, blizzards, and droughts. In the third unit, students learn how disease spreads and how quickly one disease can impact the world's population. The final unit looks skyward for potential catastrophic impacts from comets and asteroids.

Physical Science

Physical Science is an interactive and engaging course that covers the sciences of chemistry and physics. The course begins with a unit on the nature of science and a review of measurement and its importance. The course proceeds with the study of chemical principles, exposing students to topics such as the properties of matter, the structure of the atom, the formation of bonds, and the properties of solutions. The course then moves to the science of physics, describing the topics of motion, force, work, and energy. Students apply their knowledge of these topics through problems, explanations, graphs, and virtual lab activities.

Physics

This course is designed to provide students with an overview of traditional physics and the latest, most modern research in the field today. Beginning with Newtonian mechanics, students learn that every object is acted upon by multiple predictable forces. The course moves on to investigate the laws of thermodynamics, covering fluid mechanics and the relationship between matter and energy. The course also explores the various models used to explain and apply the universal forces of electricity and magnetism. Students learn the characteristics of waves and the basics of optics before the final set of lessons on atomic physics. Here, students review the characteristics of the atom and its elemental particles and apply their knowledge to modern physics. Topics in this course will be reinforced through interactive, online lab assignments.

Sports Medicine

In this course, students explore ways to keep the human machine in optimal condition. They learn about various aspects of sports medicine, including careers, basic concepts, and techniques. Students also learn about sports injuries and how they are treated so athletes can continue to compete. At the end of this course, students have a knowledge of and appreciation for the field of sports medicine and its applications.

High School Course Descriptions

Science

Sports Science

Modern-day sports and the world-class athletes who excel at them take center stage in this journey through sports science. This course provides students with a survey of the impact of physics, biomechanics, and physiology on 14 modern sports. The first unit describes the role physics plays in a variety of sports, from the aerodynamics involved in auto racing to the force behind a boxer's right hook. The next unit investigates the biomechanics of these sports, discussing concepts such as the contortions of a gymnast's body and the cause of tennis elbow. The last unit focuses on the limits of the human body, describing the energy used by cyclists during a climb through the Alps and the reaction time required to hit a fastball traveling at 90 miles per hour. Overall, the course presents engaging information that will forever change how students perceive world-class athletes and competition.

Sports Science and Medicine

This course analyzes the ways athletes apply concepts of various sciences while participating in sports. Throughout the course, students will examine how athletes utilize the dynamics of physics as an advantage when actively participating in competitions. When participating in sports injuries will occur, and students will explore through the various types of injuries that can come about ranging in a variety of severity. Furthermore, students will learn about the surgical processes to heal these injuries as well as the whole rehabilitation process it takes for athletes to get back to optimal performance.

Stem Cells

In this course, the diverse and rapidly changing field of stem cell research comes alive for students. Students learn about the different types of stem cells; how stem cells were discovered; their importance to research; and the goals, challenges, and controversies in the field. Students explore human and mouse embryonic stem cells and a variety of types of stem cells found in different parts of the body, as well as the potential clinical applications of these cells in human medicine. Finally, students study stem cell research models.



Superstars of Science

In this course students appreciate the accomplishments and impact of the most influential scientists on today's society, from scientists who lived in ancient Greece to those who are still alive and working today. The timeline structure allows students to see how science is cumulative in nature and how the discoveries and inventions of every scientist are influenced by past breakthroughs. It is commonly said that every great scientist stands on the shoulders of those of the past; this course explores that concept. The biography of each scientist, one per lesson, includes not only their contributions to their field, but the context of their work at the time and the world's reaction to their groundbreaking ideas.

Technologies in Medicine

In this course, students will analyze the ways medical practice has been able to positively advance as technology increased. Throughout the course, students will examine the engineering behind technology that has led to creating cures for various life threatening diseases. In which case students will be looking at medicine all the way back to the cellular level where they will be able to learn the importance of DNA and RNA as well as how scientists are learning to genetically modify the strands. Furthermore, students will examine epidemiology in its entirety which will allow the students to understand how pandemics and other diseases spread over time as well as allowing students to develop an understanding of how trends work. The course as a whole will give students the tools to be able to map, data analyze, and understand how diseases spread.

High School Course Descriptions

Mathematics

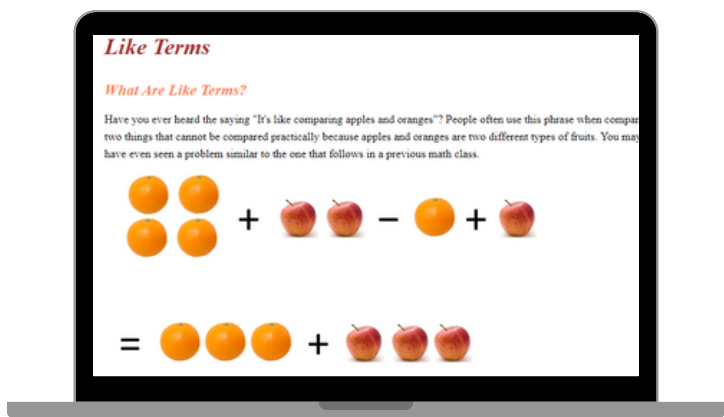
Algebra 1



What are algebraic expressions? How are they structured, and how can they be combined to create equations and inequalities? How do you know that the solutions you find are correct? In Algebra 1, students create expressions from verbal descriptions, manipulate and transform them, and create visual models. Requiring students to explain each step helps them understand mathematical processes. Exploring functions, sequences, and their corresponding graphs helps students determine the best ways to represent each. Students examine functions graphically, numerically, symbolically, and verbally, and learn how to translate between these different forms. Students' depth of understanding increases as they complete proofs and describe data, fitting functions to their data. Students then extend their knowledge of linear and exponential relationships and apply their new understanding to create quadratic and exponential expressions as models of real-life phenomena.

Algebra 1 Critical Concepts

Algebra is one of the most important areas of study in mathematics. It helps develop critical thinking skills and sets students up to be successful in future mathematics courses. In this course, students will hone their algebra skills as they study essential topics, including equations and inequalities, forms and features of functions, the structure of polynomial expressions, quadratic equations and graphs, data distribution, and probabilities.



Algebra 2

Extending their knowledge of linear, exponential, and quadratic functions to polynomial, rational, and radical functions, students in Algebra 2 model situations and solve equations, discovering how the rules they learned in arithmetic continue to apply as they work with polynomials. Students focus on the properties and factors of polynomials, learning to find the zeros of a polynomial and graph it as a function. Students use complex numbers to solve quadratic equations and exponential expressions, and learn how to rewrite rational expressions in different forms and solve simple rational and radical equations. The trigonometric concepts students learned previously are expanded as they focus on the unit circle and apply these concepts to models of periodic phenomena. Students then extend their knowledge of function families to model functions defined as square roots or cube roots, as well as piecewise-defined functions. A detailed look at exponential and logarithmic functions is applied to showing intercepts and end behavior. Students collect data through sample surveys, experiments, and simulations, and learn about the role of randomness in this process. Quantitative reasoning is emphasized as students compare the differences between sample surveys, experiments, and observations, and explain how randomization relates to each one.

Calculus

Students examine the foundational components of limits, derivatives, integrals, and series and apply this knowledge to problems in economics and physics. Derivatives are used to find lines tangent to curves and integrals. Students learn specific rules of differentiation and explore real-world applications, including related rates and optimization. Students explore the graphs of functions and their first and second derivatives to determine relationships. Functions increase in complexity to include logarithmic and exponential components. Various methods of finding the area under a curve are examined and applied, and each method is supported graphically. Integration is used to revolve solids about an axis. At the conclusion of the course, students are able to apply their knowledge to physics problems related to speed, velocity, acceleration, and find the volume of an object with curved sides, such as a barrel.

High School Course Descriptions

Mathematics

General Math

The goal of this course is to motivate students while helping them establish a strong foundation for success in developmental and consumer mathematics. The course leads students through basic mathematics and its applications, focusing on whole numbers, integers, decimals, and percentages. Students make sense of the mathematics they encounter each day, including wages, banking, interest, credit, and consumer costs. At the end of this course, students have a knowledge of and appreciation for mathematics and problem-solving that prepare them for the future.

Integrated Math 1

What are the differences between linear and exponential relationships? What are the components of mathematical expressions? What happens when one value in a data set is quite different from the rest of the data? Students extend their understanding of linear relationships by contrasting them with exponential models and modeling linear data. As they create equations and inequalities in one or more variables, students represent the constraints of these expressions and rearrange the equations to solve for particular variables. In their comprehensive study of functions, students focus on notation, domain and range, and sequences. They also interpret the key features of the graph of a function and build new functions or use existing functions to model relationships between quantities. Using their knowledge of relationships, students construct and compare linear, quadratic, and exponential models and use these models to solve various problems. Students learn that solving equations is a reasoning process and are asked to explain their reasoning in solving them. As they explore descriptive statistics, students compare measures of center and spread and determine the most appropriate ways to represent data. Students also identify and interpret outliers in a data set. Finally, they prove simple geometric theorems algebraically.

Geometry

Geometry focuses on two- and three-dimensional shapes, their properties, and their relationships. The course builds a strong foundation in mathematical logic through inductive and deductive reasoning. The properties and theorems of lines, angles, and polygons are used to solve problems, with a focus on triangles, quadrilaterals, and circles. Congruence and similarity are explored through transformations, and a connection between algebra and geometry is established by using coordinates to prove geometric theorems algebraically. The properties of two- and three-dimensional figures are used to describe the area, surface area, and volume of objects in mathematical and real-world problems. Throughout the course, students use logic skills to construct and analyze mathematical proofs.

Integrated Math 2

This course focuses on quadratic expressions, equations, and functions and compares their characteristics and behavior to previously learned linear and exponential relationships. The course covers real and complex numbers to give students the background they need to solve all forms of quadratic equations. Students explore the structure of expressions and rewrite them to highlight pieces of the relationship. Creating and solving equations and inequalities leads to solving systems of equations involving quadratic or exponential equations. Students compute and interpret theoretical and experimental probabilities, making informed decisions as they apply their knowledge of probability. Similarity transformations give students another perspective on similarity and allow them to prove related theorems. Students prove and use geometric theorems and learn about right triangles and their related trigonometry. They then move to theorems of circles, study ways to find arc lengths and areas of sectors, and write equations for circles and parabolas. Finally, students examine area, circumference, and volume formulas for different geometric forms.

High School Course Descriptions

Mathematics

Integrated Math 3

This course challenges students to gather and apply all of the concepts they have learned in previous courses. Students apply their knowledge of probability and statistics to both given data and data they collect through sample surveys, experiments, and simulations. Students look at polynomials and operations on them, examining the relationship between zeros and factors of polynomials, and use polynomial identities to solve various problems. Students learn that the arithmetic of rational expressions follows the same rules as arithmetic with rational numbers. Students deepen their understanding of trigonometry as they develop and apply the laws of sines and cosines to find missing measures of right and other triangles, determine how many triangles can be formed from a set of side measures, and use the unit circle and model periodic phenomena by using trigonometric functions. Pulling together all they have learned about function families, students analyze functions, build functions to model relationships, and build new functions from existing functions. They can also construct and compare linear, quadratic, and exponential models; use geometric shapes, their measures, and their properties to describe objects; and apply geometric concepts in modeling situations.

Integrated Math 4

This course brings together all of the mathematical concepts students have learned up to this point. In this capstone course, students perform operations with and find conjugates of complex numbers and represent them on the complex plane. Work with vectors includes recognizing the magnitude and direction of vectors and performing operations on vectors. Students also represent and manipulate data in and perform operations on matrices, applying the knowledge they gain as they represent and solve systems of linear equations. Students then analyze linear and exponential functions to show intercepts and end behavior, and delve into trigonometric functions showing period, midline, and amplitude. The course then moves to inverse functions, in which students find inverse functions and produce invertible functions from noninvertible functions by limiting the domain. Special triangles form the basis for students to geometrically determine values for sine, cosine, and tangent. Students also learn how to prove and utilize the addition and subtraction formulas for sine, cosine, and tangent and derive the equations of ellipses and hyperbolas. Cavalieri's principle is used to explain the formulas for the volume of a sphere and other solid figures. Finally, students calculate expected values and employ them to solve problems, and use probability to evaluate outcomes of decisions.

Pre-Algebra

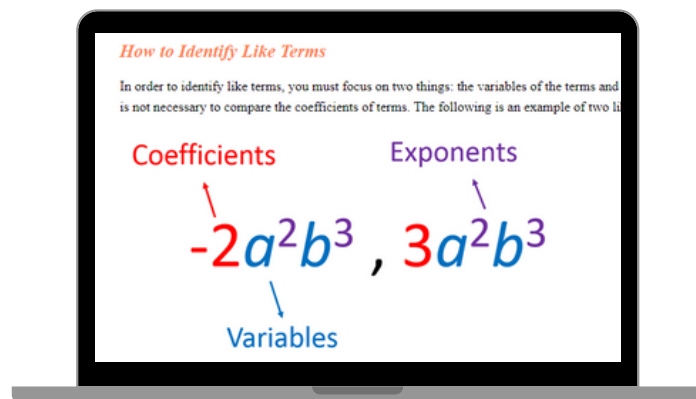
This course helps students make a successful transition from arithmetic to algebra by focusing on basic concepts of arithmetic and the applications of mathematics. Students learn about integers, fractions, decimals, expressions, equations, ratios, proportions and percentages, inequalities, graphing, probability and statistics, and geometry. The course highlights the math skills needed to be successful in everyday life and prepares students for future mathematics courses.

Pre-Calculus

This course helps students gain the knowledge they need for success in calculus and other high school math courses. The course focuses on linear, rational, polynomial, exponential, and logarithmic functions; systems of equations; systems of inequalities; matrices; trigonometry; series; sequence; probability; vectors; and analytical geometry. Throughout the course, students work to improve their critical-thinking skills and apply problem-solving techniques. By the end of this course, students gain knowledge of and appreciation for calculus and its applications.

Probability

In this course, students take a comprehensive and engaging look at the field of probability. They begin by learning the basic terms, types, theories and rules of probability. Next, the course covers random outcomes and normal distributions, as well as binomial probabilities. Finally, students learn about geometric probability, sampling distribution, populations, and the central limit theorem. By the end of this course, students gain a knowledge of and appreciation for the field of probability and its uses in everyday life.



High School Course Descriptions

Mathematics

SAT Mathematics

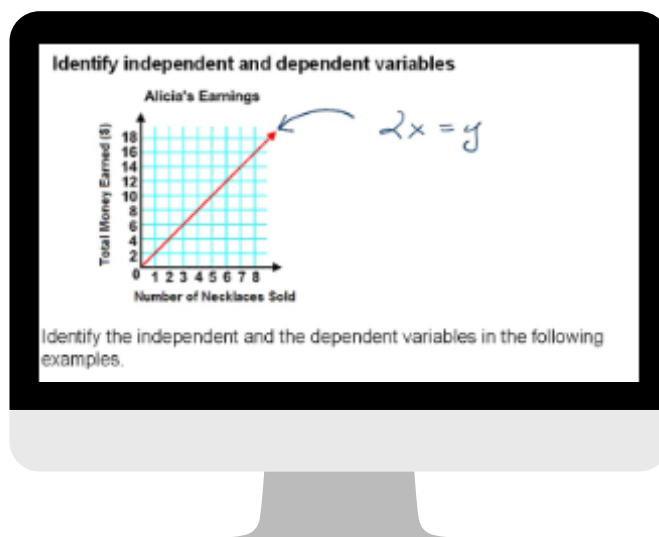
This course helps students prepare for the mathematics portion of the SAT® by equipping them with the knowledge and strategies they will need to succeed. Students learn about essential mathematical theories and operations, including rational numbers, integers, methods to solve counting problems, and the characteristics of sequences and series of numbers. Students then learn how to use algebra for solving problems, including polynomial functions, linear equations and inequalities, and variation. The final unit covers geometric shapes and how to calculate the area and perimeter of polygons and the circumference of circles. Students also learn how to solve for missing angles and sides of triangles, and understand lines, similar figures, and ratios.

Statistics

This course opens students' eyes to the many uses of statistics in the real world—from sports and the weather to health and politics. Students learn basic concepts, how to use graphs to represent data, and ways to analyze data. They explore statistical relationships, including the use of correlations, residuals and residual plots, and scatter plots. Finally, students learn how to model nonlinear relationships by using exponential and logarithmic functions and how to design a sample to produce the correct type of data (observational or experimental). By the end of this course, students gain a knowledge of and appreciation for the field of statistics and its applications in the real world.

Trigonometry

This course explores trigonometric functions and practical applications of trigonometry, such as solving real-life problems through engineering, physics, construction, and design. Students investigate graphs, linear functions, quadratic functions, trigonometric functions, analytical trigonometry, analytical geometry, vectors, and advanced functions. Students develop critical-thinking skills and learn problem-solving techniques to help them succeed in understanding and applying trigonometric principles. By the end of this course, students gain knowledge of and appreciation for trigonometry and problem-solving that will prepare them for future mathematics courses.



High School Course Descriptions

World Languages

French 1

This course is a comprehensive and engaging introduction to French language and culture. After mastering the French alphabet and numbers, students study French culture, events, and people. By the end of the course, students have a foundation in the study of French, are able to engage in French conversation, and have built a solid foundation for further French language study.

French 2

In this course, students continue their virtual tour through France and other French-speaking countries and regions. This second-level French course takes a historical perspective in teaching the language, covering historical events and historical figures. By the end of this course, students have gained a deeper knowledge of and appreciation for the French culture and language.

French 3

This course continues to build students' vocabulary, grammar, and communication skills with the objective of improving student achievement in reading, writing, and speaking French. Students apply what they have learned in previous French courses to French conversation. At the end of this course, students are able to express themselves in French.

French 4

In this level-four French course, students apply the knowledge they gained in previous French courses to become true Francophones. Students explore exciting eras of French history, from the Crusades to the Renaissance to the modern day, learning about famous authors and historical figures along the way. The course provides students with an advanced knowledge of and deep appreciation for the French language and culture. At the end of this course, students are able to speak, read, and write in French with basic fluency.

German 1

This course is a comprehensive and engaging look at the German language and culture and focuses on the most essential information needed to communicate in German. After mastering the German alphabet and numbers, students study German culture, events, and people. By the end of the course, students have a foundation in the study of German and can engage in conversation in German.

German 2

Building on the content learned in German 1, students are immersed in the language, while learning cultural aspects of German-speaking countries. The course emphasizes increasing students' skills in understanding spoken German, and writing, reading, and speaking in German. German 2 provides a comprehensive review of German grammar while improving students' vocabulary skills. At the end of this course, students have a knowledge of and appreciation for the German people and language.



High School Course Descriptions

World Languages

Spanish 1

This introductory course provides a solid foundation for students to build proficiency in listening, speaking, reading and writing in Spanish, and provides students with basic skills and contextual information for using Spanish. Each unit presents new information, including useful vocabulary and grammatical structures, and introduces relevant cultural information. At the end of this course, students have the basic skills and contextual information required for using Spanish in their professional and daily lives and when traveling abroad.

Spanish 2

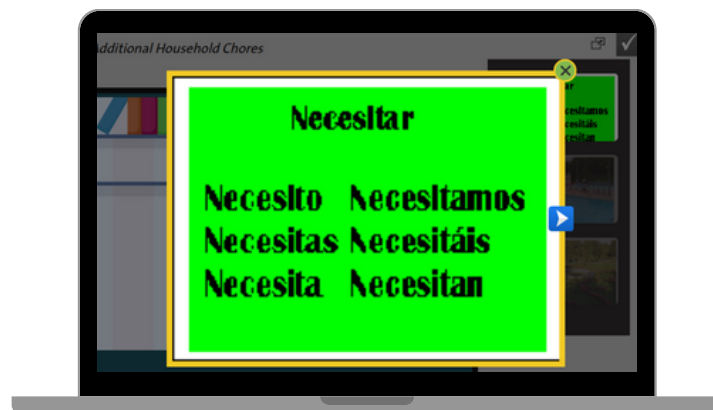
In Spanish 2, students are immersed in the Spanish language and in the cultural aspects of Spanish-speaking countries. Students build on what they learned in Spanish 1, with a study of Spanish grammar and an emphasis on increasing their skills in listening, writing, reading, and speaking in Spanish. At the end of this course, in addition to improving their Spanish language skills, students have a knowledge of and appreciation for the cultures of Spanish-speaking countries, including the events and people that have impacted the language.

Spanish 3

In this level-three Spanish course, students apply what they learned in previous courses to conversational Spanish. Students explore cultural aspects of Spanish-speaking countries ranging from schools and careers to sports and authors. At the end of this course, students have improved Spanish language skills and can express themselves in Spanish conversation.

Spanish 4

From the Caribbean to South America and Mexico to Spain, students continue their exploration of Spanish and Latin American language and culture. The course provides students with an advanced knowledge of and deep appreciation for the many Spanish-speaking peoples and countries around the world. At the completion of this course, students will have gained the knowledge and skills to speak, read, and write in the Spanish language with basic fluency.



High School Course Descriptions

Electives

Advanced Music Theory

In this course, students will be immersed in the world of music and the technical details of how music works. The course is designed to provide students with a comprehensive and engaging look at music theory and the notation and structure important to its development. Students learn about various aspects of music theory, including the different types of musical staves, notes, scales, and chords. Students are also exposed to the use of harmony to produce melodic structure. At the completion of this course, students will have gained knowledge of and appreciation for music theory.

Art History & Appreciation

Where do artists find their inspiration? How can you tell a Rembrandt from a Renoir? Art History and Appreciation surveys artwork and architecture from different periods in human history. Students learn how artists use their abilities to observe and interpret reality and create unique artistic styles and works. Part 1 focuses on the art and architecture in Europe, Africa, and the Americas, while Part 2 moves east to Asia and Oceania. In each part of the course, students note the development of different art movements, the variation in artistic techniques, and the influence of significant artists and designers. Lessons explain the tools, skills, and techniques artists use to create their works. Students also learn how to differentiate between art movements in significant periods of history. At the end of this course, students can recognize different artistic styles, movements, and techniques, and identify specific pieces of artwork by period and origin.

Career Explorations

How do you decide what type of career to pursue? What steps can you take to get a job in your desired field? Career Explorations provides students with employment data and career resources to analyze job opportunities and prepare for their careers. Students learn about careers and the relationships between education, career, and earning potential. Students then match their interests with career opportunities and build a career map. The course defines essential professional skills such as communication, teamwork, organization, and leadership. Lessons also include explanations of essential personal attributes including flexibility, responsibility, and dependability. At the end of the course, students explore networking, résumés, using social media, applying for jobs, and preparing for interviews.

Computer Engineering

This course addresses the concepts important to the field, including the essential parts of a computer, how information is quantified, organized, and used, and the different types of information. Students learn about information compression and information theory, the different types of coding, the theory of sound, and how sound is converted into a signal. Finally, students learn about applications of computer engineering, including digital telephones, real-time data transmission, bandwidth limits, different types of systems, and information security.

Computer Skills for Academic Success

Computer programs are an integral part of day-to-day life, so it's essential to have a basic understanding of how they work and how to use them safely and responsibly. In this course, students learn about file types, including PDFs, as well as basic file management. They also learn about digital citizenship and how to communicate effectively and appropriately on the Internet. Students also explore the origins of open-source software, including the LibreOffice suite. Office productivity software is required for education and numerous professions. While some office software applications are quite expensive, a powerful and user-friendly group of programs called LibreOffice is available for free to everyone. Students explore this free application suite, learning how to create, save, and format documents in Writer; how to design spreadsheets and how to manipulate and perform calculations on data in Calc; and how to build, save, and customize slideshow presentations in Impress. After completing this course, students will have the tools to work with and present information in a variety of forms for professional, academic, and personal use.

Fitness

This Fitness course is all about ways to lead an active, healthy life. The course provides up-to-date information to help students establish healthier lifestyles and better understand the close relationship between physical activity, nutrition, and overall health. This course supports and encourages students to develop an individual optimum level of physical fitness, acquire knowledge of physical fitness concepts, and understand the importance of a healthy lifestyle. At the end of this course, students have a knowledge of and appreciation for fitness and its impact on everyone.

High School Course Descriptions

Electives

Health

Imagine the healthiest people you know. What are their secrets? While some health traits are genetically determined, the truth is we all have the ability to make positive changes to better our physical health. In Health 1, you will learn how to promote better health by decreasing stress and finding a fuller vision of your life. Explore different lifestyle choices that can influence your overall health, from positively interacting with others to choosing quality health care and making sensible dietary choices. You will have the opportunity to build your own plan for improvement and learn how to create the type of environment that will ensure your overall health, happiness, and well-being.

Health and Wellness

Imagine the healthiest people you know. What are their secrets? While some health traits are genetically determined, the truth is everyone has the ability to make positive changes to better our physical health. In Health and Wellness, you will explore different lifestyle choices that can influence your overall health, from positively interacting with others to choosing quality health care and making sensible dietary choices. Wellness involves being healthy in body and mind. You will learn how to make positive choices that reduce stress and improve your mental and emotional health. You will also examine the choices and influences that can negatively impact your overall wellness. You will have the opportunity to build your own plan for improvement and learn how to create the type of environment that will ensure your overall health, happiness, and well-being.

Internet Safety

Keeping yourself safe when you're using the Internet should be a high priority. Have you ever provided information to a website that you didn't know or trust? Do you know who is able to view the personal information that you post about yourself on social media sites? Have you ever shopped online? Has someone you know experienced identity theft? Are you able to determine the best places to acquire accurate, reliable information to use in a research paper? In Internet Safety, you'll learn how to keep yourself safe online. You will learn how to think critically about what constitutes appropriate behavior online and expand the range of your online interactions. In the beginning of the course, you will identify safety precautions for online communication, learn about ways to share content responsibly, and discover how to keep your accounts safe from identity theft and viruses. The course addresses virtual citizenship, defines cyberbullying, and encourages you to consider the consequences of your online interactions. Lessons also address reporting online abuse, phishing, plagiarism, copyright, and fair use. The course ends by explaining how to recognize quality websites to use for research, safely use social networking sites, and buy and sell items online.

Life Skills

Life Skills is a comprehensive career-development course for high school students making the transition to life after high school. The course shows students the steps for choosing a career, conducting a job search, selecting the right college, applying to college, and getting financial aid. This course prepares young adults for a successful life after high school, from maintaining a healthy body and a safe home to finding and keeping a job. At the end of this course, students have a knowledge of and appreciation for these important life skills.



High School Course Descriptions

Electives

Music Theory and Appreciation

Have you ever wondered why some notes sound great together and others don't? Or how musicians translate the symbols of sheet music into the music you hear? Music theory—the study of how music works—is essential to any aspiring composer or performer. Students develop their knowledge through listening exercises, drawing and identifying notation, creating basic compositions, and analyzing music samples. In the second part of the course, students focus on music appreciation as they survey the development of music, beginning in ancient Greece and ending with modern western music. Students learn how to distinguish music from different periods and describe how music relates to its historical, cultural, and social context. By the completion of this course, students have a strong foundational understanding of music, preparing them to learn how to play an instrument or continue to more advanced music studies.

Personal Finance

This course provides students with a foundation for understanding personal budgeting and long-term financial planning. Students compare and contrast types of financial institutions, learn how to open a bank account and reconcile a monthly bank statement, and understand the importance of establishing a savings account. Students explore investments, taxes, and debt, and complete activities to develop and balance a budget. Lessons also explain credit scores and suggest ways to maintain a healthy credit score. The course also looks to the future with information about long-term financial planning and planning for large expenditures such as houses, cars, and higher education.

Physical Education

This course analyzes the ways that individuals can improve their physical fitness using a variety of different exercises and maintaining an overall healthy lifestyle. Throughout the course students will examine a variety of fitness tools and ways to incorporate these tools in their daily lives. Furthermore, students will explore individual sports and the physics behind them. While looking at the variety of sports more closely students will develop an understanding of teamwork and fair play. Lastly, the physical education course will encourage students to get out and make the proper decisions when it comes to their own physical fitness.

Science of Computing

Survey of the past, present, and future of computer technology. Students explore fascinating and enlightening topics, such as how Stonehenge may actually have been used as a type of computer, and how inventions including the abacus and the microprocessor have made today's technology possible. Students also learn about the science behind the hardware and software used today. Topics including algorithms, operating systems, and networks are described in detail and placed into context as tools for human innovation. Finally, the course looks to the future, introducing students to foreseeable improvements to current technology and visionary breakthroughs such as artificial intelligence, quantum security, and biological processors.

Your Career and Money

The eCourse, Your Career and Money, explores the universal skills needed in the workplace and gives students financial literacy around day-to-day money choices as well as long-term financial planning. Students explore occupations to understand what is right for them and be equipped for the process of applying and getting hired. They learn workplace soft skills such as time management, communication, and problem solving. The course covers how personal bank accounts work, how to maintain a budget, and how savings and investments fit into a long-term strategy to plan for stages of life like college and retirement. Students learn to be smart consumers by evaluating housing options, planning for housing costs, setting up utilities, and being prudent with credit, loans, taxes, and investments. This course prepares students to be successful as they enter adulthood.



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One East Broward Blvd Suite 1599
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Corporate: 201-630-2600

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