

# Lincoln Learning Solution Courses

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## Social Studies

### 1960s America

The 1960s America course gives students a look at life during this exciting and monumental decade. This course covers the social, political, and cultural movements and changes that occurred in the 1960s. Students explore different historical events and determine how these events impacted American citizens during the decade and afterward. The course also focuses on significant headlines of the 1960s to give students a realistic perspective of this decade.

Primary Grade: 11

Grade Range: 10, 11, 12

Full-Year, Semester Based: 1 credit

NCAA Eligible

Auto-Graded

### African American History

African American History is a survey course that spans the history of America, including ancient African society and culture through the presidency of Barack Obama. Students examine the African American struggle to secure their constitutional rights. This course explores the powerful and influential role of African Americans in U.S. history.

Primary Grade: 11

Grade Range: 10, 11, 12

Half-Year, Semester Based: 0.5 credit

NCAA Eligible

Auto-Graded

### Ancient History

Ancient History enables students to explore the cultures of ancient civilizations throughout the world. They discover each civilization's contributions to art, music, literature, education, religion, science, technology, government, and philosophy. Students explore aspects of humanity from prehistoric to about 500 CE.

Primary Grade: 8

Grade Range: 7, 8

Full-Year, Semester Based: 1 credit

Auto-Graded

## Civics and Government

Civics and Government offers students an introduction to the foundation of the democratic government of the U.S. and the basic principles of the judicial system. In this course, students explore what it means to be a citizen, as well as the structure of the legislative, executive, and judicial branches of the U.S. government. Students learn about how these branches work together. Students also look at the characteristics of state and local governments throughout the country to examine the organization and responsibilities of these branches. Students also explore the components of the American economy, including its foundations and how it interacts with other economies of the world.

Primary Grade: 11

Grade Range: 10, 11, 12

Full-Year, Semester Based: 1 credit

NCAA Eligible

Auto-Graded

## Civics and Government - Credit Recovery

Civics and Government offers students an introduction to the foundation of the democratic government of the U.S. and the basic principles of the judicial system. In this course, students explore what it means to be a citizen, as well as the structure of the legislative, executive, and judicial branches of the U.S. government. Students learn about how these branches work together. Students also look at the characteristics of state and local governments throughout the country to examine the organization and responsibilities of these branches. Students also explore the components of the American economy, including its foundations and how it interacts with other economies of the world.

Primary Grade: 11

Grade Range: 10, 11, 12

Full-Year, Semester Based: 1 credit

## Economics

Economics presents an overview of microeconomics and macroeconomics. It discusses economic theories, economic systems, various economic concepts, and the global economy. Students will examine the economy of the United States in depth and compare it to other economies. Students will also explore personal banking and how to prepare for their financial future.

Primary Grade: 12

Grade Range: 11, 12

Full-Year, Semester Based: 1 credit

Auto-Graded

## Financial Literacy

In Financial Literacy, students explore aspects of personal finance. The course focuses on ways of earning income, spending, saving, investing, managing credit, and managing risk using real-world applications. These concepts will help students prepare for their financial futures.

Primary Grade: 12

Grade Range: 9, 10, 11, 12

Half-Year, Semester Based: 0.5 credit

Auto-Graded

## Law

In the Law course, students examine citizen obligations to law enforcement, the court system, and the rules and regulations that all Americans are expected to uphold. They explore the terminology and the regulations that structure and control society. Students study different types of crime and the law enforcement powers that are put in place to regulate and diminish overall crime. Students who are interested in a law career will benefit from learning the law and justice terminology presented in this course. Warning: This content contains subject matter that may be considered offensive or graphic.

Primary Grade: 12

Grade Range: 11, 12

Half-Year, Semester Based: 0.5 credit

NCAA Eligible

Auto-Graded

## Middle School Civics and Government

Middle School Civics and Government introduces students to the basic principles of the democratic government of the United States. Students examine the structure of legislation, including the numerous branches of government and the roles that each branch plays governing the nation. Students look at local and state governments, including mandates and laws and how those laws affect citizens locally and nationally.

Primary Grade: 7

Grade Range: 6, 7, 8

Full-Year, Semester Based: 1 credit

Auto-Graded

## Middle School Geography

Students learn to study the Earth's landscape in Middle School Geography. In this course, students learn that geography extends beyond physical structures by exploring geographical facets such as regions, ethnicities, and trade routes, in addition to landforms. By studying the geography, history, culture, religion, and contemporary issues facing a certain group of people or a specific area of space, students discover a significant amount of information about people in the present and in the past.

Primary Grade: 6

Grade Range: 6, 7, 8

Full-Year, Semester Based: 1 credit

Auto-Graded

## Middle School U.S. History

Middle School U.S. History explores the history of the United States from before the arrival of Europeans in North America to the events of the 2016 presidential election. Students begin the course by examining North America before the arrival of European explorers and the establishment of colonies. Students learn about life in the colonies, British rule, and the events that led to the Revolutionary War. After learning about the American Revolution, students explore early U.S. government, westward expansion, the influence of the Industrial Revolution, and the Civil War. Then, they study life after the Civil War, Progressivism, Imperialism, and the onset of World War I. Next, students analyze the Roaring Twenties, the Great Depression, and World War II. Finally, students examine the Civil Rights movement, the Cold War, life in the 1960s and 1970s, and modern-day policies and events.

Primary Grade: 8

Grade Range: 6, 7, 8

Full-Year, Semester Based: 1 credit

Auto-Graded

## Middle School U.S. History to 1877

Middle School U.S. History to 1877 encompasses the discovery of North America by European explorers, colonization, the Revolutionary War, and the Civil War. Students will begin the course by learning about Native American tribes that existed in North America before the arrival of European explorers and colonization. Students will then examine colonial life and the French and Indian War, as well as the events that preceded the Revolutionary War, the development of the U.S. government, and westward expansion. Finally, students will study the events and circumstances that inspired the Civil War, key aspects of the Civil War, and the Reconstruction era.

Primary Grade: 8

Grade Range: 6, 7, 8

Full-Year, Semester Based: 1 credit

Auto-Graded

## Middle School World History

Middle School World History enables students to explore significant events, people, and places from prehistoric to modern times. Studying world history allows students to consider the historical relevance of people, places, and events. In this wide-ranging course, students learn how the world and its inhabitants were shaped over time through conquest, exploration, and trade. Students also gain a better understanding of the role that geography plays in world history.

Primary Grade: 7

Grade Range: 6, 7, 8

Full-Year, Semester Based: 1 credit

Auto-Graded

## Political Science

Political Science is an introduction to political science as an academic discipline. Students discover the origin, creation, and function of different political systems within the United States and across the globe. Students explore political theories, such as systems theory and the social contract theory. Additionally, students examine economic concepts, how countries interact with one another, international governmental organizations and nongovernmental organizations, and the role of media in politics while developing skills in research methodology.

Primary Grade: 12

Grade Range: 11, 12

Half-Year, Semester Based: 0.5 credit

NCAA Eligible

Auto-Graded

## Psychology

In Psychology, students explore the science of explaining and controlling human behavior. Psychology plays an integral part in everyday life because all decisions, relations, and emotions are closely tied to behavior and genetics. Within this course, students look at behavior, and they consider prominent psychologists who have made impressive and monumental discoveries through testing, research projects, and proving theories. Students will study everything from the anatomy of the brain to psychological disorders.

Primary Grade: 12

Grade Range: 11, 12

Half-Year, Semester Based: 0.5 credit

NCAA Eligible

Auto-Graded

## Social Studies 1

Social Studies 1 leads students beyond their local community to consider their place in the world. They explore the function and characteristics of local, state, and federal governments, including the role of rules in different settings and the rights and responsibilities of citizens. Students also learn how to ask questions and gather information to understand history. This course focuses on developing students' knowledge of the interplay between the physical world and human societies, as they learn basic geography skills, such as map reading. They examine the impact of the environment on how and where people live, and they explore the ways that regional variations drive trade in both goods and services. Finally, students build their understanding of good citizenship by identifying ways to contribute to the community and avoid conflict by interacting respectfully with others. This course includes a printed Parent and Teacher Guide that will help you support your student's learning.

Primary Grade: 1

Grade Range: 1

Half-Year, Semester Based: 0.5 credit

Auto-Graded

## Social Studies 2

Social Studies 2 empowers students to become productive citizens by developing their knowledge and skills in civics, history, geography, and economics. In this course, students deepen their understanding of the U.S. government by explaining the role of the three branches of government. Students extend their knowledge of U.S. history to recognize important figures, they begin to think like historians by identifying reliable sources, crafting compelling questions, distinguishing fact and opinion, and using timelines to structure a series of events. The course highlights the role of international trade, as well as the importance of geography and the cultures found around the world. Students learn core concepts in economics, including scarcity and the functions of banks. This course includes a printed Parent and Teacher Guide that will help you support your student's learning.

Primary Grade: 2

Grade Range: 2

Half-Year, Semester Based: 0.5 credit

Auto-Graded

## Social Studies 3

Social Studies 3 focuses on the United States, including its government and its laws. Students are encouraged to think about what it means to be productive, responsible citizens of both the nation and their own local communities. To support their learning about U.S. history and differing cultures and perspectives, students develop and research compelling questions on historical topics, work with credible sources, and distinguish between fact and opinion. Additionally, they learn to evaluate the validity of sources, especially websites. Students develop presentation skills that include constructing arguments to support their opinions and using visual aids to add interest to oral reports. They also expand their map-reading skills and learn the fundamentals of financial literacy. In addition to studying the United States, students examine the geography, culture, history, government, and economy of three other world communities: Canada, Mexico, and India. This course includes a printed Parent and Teacher Guide that will help you support your student's learning.

Primary Grade: 3

Grade Range: 3

Full-Year, Semester Based: 1 credit

Auto-Graded

## Social Studies 4

Social Studies 4 introduces students to critical analysis as they develop detailed knowledge of the United States, its regions, and the influence of individual perspectives on documents and events. Students assess and use a wide variety of primary and secondary sources to research compelling questions through supporting questions and present interpretations and arguments in both written and oral form, supporting their positions with details drawn from reliable sources. They learn the rights and responsibilities of citizens and how people and groups can work together to accomplish common goals. Students also explore how regional differences in physical environments and cultures affect how people live and work. This course will foster a command of the concepts and tools of geography, such as latitude, longitude, maps of various kinds, and scales. Students will also gain an understanding of core aspects of economics, including resources, production, consumption, and international trade. This course includes a printed Parent and Teacher Guide that will help you support your student's learning.

Primary Grade: 4

Grade Range: 4

Full-Year, Semester Based: 1 credit

Auto-Graded

## Social Studies 5

Social Studies 5 puts American history front and center as students learn about the Native American civilizations of the Americas, the discovery of the New World by European explorers, the founding of the United States, westward expansion, and the coming of the Industrial Revolution. In this course, students leverage research skills to analyze historical events and documents, and they present their findings using arguments based on reliable sources with supporting facts. They refine their ability to distinguish fact from opinion in the context of historical investigation. Students broaden their understanding of government by recognizing how the system of checks and balances works at both national and state levels, and they identify and interpret important songs and symbols of the United States. Civic responsibility is woven throughout the curriculum, and students learn to recognize the value of public service and the traits of good leaders. Social Studies 5 also explores the themes, tools, and techniques of geography. Students learn how human interaction with the environment has caused change, both beneficial and detrimental, in the past and in the present. Finally, they study how the U.S. economy functions, including the role of government and multinational organizations in domestic and international trade. This course includes a printed Parent and Teacher Guide that will help you support your student's learning.

Primary Grade: 5

Grade Range: 5

Full-Year, Semester Based: 1 credit

Auto-Graded

## Social Studies K

Social Studies K introduces emerging learners to the knowledge and skills that will help them to become active and valued participants in their community. Students discover the importance of rules and regulations in guiding community behavior, and they explore good citizenship and values such as respect, democracy, cooperation, and equality. Social Studies K establishes students' understanding of the past by teaching them the importance of a sequence of events and developing their skill in distinguishing fact from opinion. Finally, students learn about the world around them, including how geography influences society, how maps represent places, and how communities rely on trade in goods and services. This course includes a printed Parent and Teacher Guide that will help you support your student's learning.

Primary Grade: K

Grade Range: K

Half-Year, Semester Based: 0.5 credit

Auto-Graded



## Sociology

In the Sociology course, students explore the various topics and sociological terminology necessary for understanding and exploring the field. Students investigate major sociological perspectives and the famous sociologists who invented and contributed to them. Additionally, students determine how researchers perform valid and reliable sociological studies. This course is ideal for students who are interested in pursuing post-secondary careers in sociology, psychology, law, or other social sciences.

Primary Grade: 12

Grade Range: 11, 12

Half-Year, Semester Based: 0.5 credit

NCAA Eligible

Auto-Graded

## U.S. History I

In U.S. History I, students will explore United States history from the European settlement of North America through Reconstruction. Students investigate North America's colonization, the transition from British colonies to an independent United States, and the Civil War and reunification. The course offers numerous rigorous, interactive options for students to conduct an in-depth review of key events and concepts in U.S. history.

Primary Grade: 9

Grade Range: 9, 10

Full-Year, Semester Based: 1 credit

NCAA Eligible

Auto-Graded

## U.S. History II

In U.S. History II, students will explore United States history from the post-Reconstruction era to the present. This course allows students to investigate the expansion of the United States' economy, government, culture, and foreign policy. Students will analyze cultural movements and influential legislation. The course offers numerous interactivity options for students to dive deeper into key events and concepts in U.S. history.

Primary Grade: 9

Grade Range: 9, 10, 11

Full-Year, Semester Based: 1 credit

NCAA Eligible

Auto-Graded

## World Cultures

World Cultures explains global geography, history, and culture to students. In this course, students study the major political powers of each era and discover how the world's earliest civilizations developed through the Age of Exploration to the Industrial Revolution. In the second half of the course, students examine a world at war, navigating World War I, nationalist movements in Russia and Asia, World War II, the Cold War, independence from imperial and communist rule, and struggles for democracy. The course closes with discussions of current global issues such as terrorism, technology, the economy, pollution, and renewable energy.

Primary Grade: 10

Grade Range: 9, 10, 11

Full-Year, Semester Based: 1 credit

NCAA Eligible

Auto-Graded

## World Geography

In World Geography, students explore the principles and tools of geography while examining the world as geographers. Students gain cultural perspectives by exploring the physical and human geographic aspects of each continent and its regions. This enables students to analyze cultures throughout the world and examine how the global community impacts their lives.

Primary Grade: 10

Grade Range: 9, 10, 11

Full-Year, Semester Based: 1 credit

NCAA Eligible

Auto-Graded

## World History

World History allows students to investigate significant events, people, and places from prehistoric to modern times. Studying world history allows students to consider the historical relevance of people, places, and events. In this wide-ranging course, students learn how the world and its inhabitants were shaped over time, and, in the process, gain a better understanding of the role that geography plays in world history.

Primary Grade: 10

Grade Range: 9, 10, 11

Full-Year, Semester Based: 1 credit

NCAA Eligible

Auto-Graded

## English Language Arts

### African American Literature

African American Literature is a survey course that spans the history of America as it relates to the lives of African Americans. Students explore the forcible transport of individuals from Africa to America, the publication of narratives of enslaved men and women, the abolition of slavery under President Lincoln, the civil rights movement, and the presidency of Barack Obama. Students explore the powerful and influential roles that African Americans have played in U.S. history. They will discover the contributions of African American activists, artists, and authors through literature and nonfiction texts such as biographies, autobiographies, memoirs, court cases, historical texts, and litigations.

Primary Grade: 11

Grade Range: 11, 12

Half-Year, Semester Based: 0.5 credit

NCAA Eligible

Auto-Graded

### American Literature

In American Literature, students explore various cultural periods of American literature. They examine numerous aspects of Romanticism, literature from multiple historical eras of the United States, and contributions made by significant American leaders. In addition to discovering multiple genres and investigating numerous periods of writing, students also explore the basics of literature, writing, and grammar.

Primary Grade: 12

Grade Range: 11, 12

Full-Year, Semester Based: 1 credit

NCAA Eligible

Auto-Graded

### British Literature

British Literature provides students with a survey of literature in this genre. Students explore the Anglo-Saxon and medieval eras, the English Renaissance, and the Restoration and Enlightenment periods. They analyze how authors from this region have traditionally constructed texts and developed prominent and long-lasting literature. In this course, students examine a variety of styles and use the vocabulary that is characteristic of literature pieces they are reading. This course offers students numerous chances to discuss, analyze, synthesize, and evaluate the texts they read through a wide range of writing and thinking exercises.

Primary Grade: 12

Grade Range: 11, 12

Full-Year, Semester Based: 1 credit

NCAA Eligible

Auto-Graded

## Communications

In Communications, students explore various aspects of communication. They will investigate the foundations of communication by analyzing, applying, and designing creative works essential to the professional communications industry. This course establishes a comprehensive foundation for students interested in a post-secondary career in communications.

Primary Grade: 11  
Grade Range: 11, 12  
Half-Year, Semester Based: 0.5 credit  
Auto-Graded

## Creative Writing

Creative Writing is a course in which students discover, analyze, and apply the methods and styles used in various forms of fiction, creative nonfiction, drama, and poetry. It emphasizes experimentation and practice, and it encourages students to take cues from published writers and poets. Students express themselves while learning various genres and their respective writing rules. Students also explore related topics, including word choice, diction, form, editing, idea generation, and other skills useful in nonfiction writing. Students do a great deal of writing in this course.

Primary Grade: 12  
Grade Range: 11, 12  
Half-Year, Semester Based: 0.5 credit  
NCAA Eligible  
Auto-Graded

## Cursive Handwriting

In the Cursive Handwriting course, students will have the opportunity to learn the art of cursive handwriting. This course uses videos and written lessons to demonstrate and explain how each letter is written. Students practice their cursive writing using engaging worksheets.

Primary Grade: 2  
Grade Range: 2  
Quarter Year Semester: .25 Credits  
Auto-Graded

## Debate

In the Debate course, students learn crucial debate terminology, speech strategies, and persuasive techniques. Students investigate rhetoric and learn to consider multiple and divergent perspectives. Throughout this course, students develop the skills necessary to execute a well-versed and effectively supported argument. This study of supporting claims with credible evidence will allow students to engage in effective persuasive discourse.

Primary Grade: 11

Grade Range: 11, 12

Full-Year, Semester Based: 1 credit

NCAA Eligible

Auto-Graded

## English Grammar

Students enrolled in English Grammar explore basic, intermediate, and advanced concepts of grammar, language, style, and composition. By analyzing word meaning and function, students will generate content using appropriate grammatical expressions. Students will examine provided writing samples and their own compositions to enhance their skills.

Primary Grade: 10

Grade Range: 9, 10

Half-Year, Semester Based: 0.5 credit

Auto-Graded

## English Language Arts 1

English Language Arts 1 focuses on developing reading, writing, spelling, speaking, and listening skills. In this course, students begin to understand that spoken and written language can be broken into phonemes. They use rhyming, blending, and segmenting to develop the foundation needed to become an emergent reader. Students read prose, poetry, and informational texts for comprehension. They learn to interpret the ways in which stories and poems appeal to the senses and to identify the main topic and key ideas within texts. Students increase their vocabulary by learning to use morphemic and contextual analysis to determine the meaning of unknown words. Students learn to spell new words using various spelling rules. In English Language Arts 1, students hone their writing skills by practicing grammar rules for noun usage, personal possessive and indefinite pronouns, verb tenses, capitalization, commas, and end punctuation. In doing so, they learn to produce and expand sentences and to write opinion pieces, informational pieces, and narratives. This year, students begin learning how to research information and how to use their research to answer questions. They identify and use various parts of a book, such as headings and the table of contents. They also use digital tools to publish their writing. This course includes a printed Parent and Teacher Guide that will help you support your student's learning.

Primary Grade: 1

Grade Range: 1

Full-Year, Semester Based: 1 credit

Auto-Graded

## English Language Arts 10

In English Language Arts 10, students focus on literature, grammar, and composition. They examine words and their meanings and apply this information to other concepts in the course. Students analyze the different elements of a story, including plot, setting, character, narrator, and voice. Additionally, throughout the course, students study various parts of speech, readings, and poetry. English Language Arts 10 also presents students with many different types and styles of writing in order to provide a thorough examination of language and literature. Students apply these styles to their own writing as well.

Primary Grade: 10

Grade Range: 9, 10

Full-Year, Semester Based: 1 credit

NCAA Eligible

Auto-Graded

## English Language Arts 2

English Language Arts 2 central concepts are reading, writing, spelling, speaking, and listening. This year, students begin to transition from learning to read to reading to learn. In this course, students continue to develop their phonemic awareness by learning to recognize word families, word origins, and irregularly spelled words. They also begin to use linking words to connect opinions and reasons and time-order words to signal the order of events. While reading, students work to distinguish fact from opinion, decipher an author's reason, and identify the main topic of a multi-paragraph text. Students sample multiple genres of literature, including fiction, nonfiction, poetry, folktales, and fables, while exploring story elements such as plot, setting, characterization, and the author's point of view. They also learn to distinguish between the main idea and the theme of a story. Students develop their writing skills by composing narrative, persuasive, and informative essays, as well as creative writing pieces. Additionally, they practice their research skills by finding facts in multiple sources and using them to produce a science report. Students use a dictionary to reinforce phonetic punctuation and spelling and to identify words with multiple meanings. This course includes a printed Parent and Teacher Guide that will help you support your student's learning.

Primary Grade: 2

Grade Range: 2

Full-Year, Semester Based: 1 credit

Auto-Graded

## English Language Arts 3

English Language Arts 3 focuses on expanding students' reading, writing, spelling, speaking, and listening skills. In this course, students read more complex texts and write to express themselves with greater sophistication. They practice reading at a natural pace while using intonation and expression appropriately. While reading, they interpret texts in more-complex ways, by identifying cause and effect, determining tone and mood, and distinguishing shades of meaning in figurative language. This course introduces students to new genres, including opinion pieces, biographies, and blogs, while they continue to work with narratives, fiction, and informational texts. An emphasis is placed on grammar, punctuation, and spelling as students explore the functions of nouns, pronouns, verbs, adjectives, and adverbs; categorize nouns; explain the differences between various verb tenses; write simple, complex, and compound sentences; and use capitalization, commas, and quotation marks correctly. They learn the spelling of words with various prefixes and suffixes; regular and irregular nouns, verbs, and adjectives; and contractions, compound words, homophones, and words with various vowel sounds. Students develop their speaking and listening skills by planning, writing, and delivering an oral presentation and by creating visual aids to accompany the presentation. This course also introduces students to new forms of writing, such as scripts, autobiographies, and outlines. They practice drafting and revising their writing through the development of journal entries, short stories, opinion pieces, and narratives. Students expand their research skills by learning to take notes while researching and to organize their notes into categories. They also gather information using both print and electronic sources. This course includes a printed Parent and Teacher Guide that will help you support your student's learning.

Primary Grade: 3

Grade Range: 3

Full-Year, Semester Based: 1 credit

Auto-Graded

## English Language Arts 4

Students in English Language Arts 4 focus on expanding their reading, writing, spelling, speaking, and listening skills, with a heavy emphasis on solidifying their writing skills. They use narrative, descriptive, opinion, persuasive, and informative pieces to learn to state ideas, facts, and opinions clearly while correctly using introduction, body, and conclusion paragraphs. Students create a plan for writing, revise and edit their work, and improve their writing using feedback from an adult. Through their writing, they continue to master the conventions of English grammar, including quotations, relative pronouns, progressive verb tenses, modal auxiliaries, prepositional phrases, antecedents, coordinating conjunctions, compound sentences, capitalization, and punctuation, while avoiding sentence fragments and run-on sentences. They learn to spell words with a wide variety of prefixes and suffixes in addition to homophones, possessives, compound words, and words with silent letters. While reading, students identify, describe, and analyze story elements and compare and contrast these elements in stories, myths, and literature from various cultures. Students further develop their research skills by conducting short research projects, taking notes during research, and creating bibliographies. They develop more concrete speaking skills by creating and delivering presentations on various topics. In addition, students create

audio recordings and visual aids to supplement their presentations. This course includes a printed Parent and Teacher Guide that will help you support your student's learning.

Primary Grade: 4

Grade Range: 4

Full-Year, Semester Based: 1 credit

Auto-Graded

## English Language Arts 5

In English Language Arts 5, students solidify their foundational skills in reading, writing, spelling, speaking, and listening. Students read a variety of texts this year, including fiction, nonfiction, and informational texts. They identify the author's purpose in multiple forms of writing, such as descriptive, expository, technical, persuasive, and narrative passages. Through these texts, they learn to make inferences and analyze multiple accounts of the same event. They also identify, interpret, and compare similes, metaphors, and idioms used in writing and learn to draw a plot diagram and to identify common themes in literature. This year, students write a five-paragraph essay and an effective thesis statement. They follow the writing process to develop essays, create outlines to organize their ideas, and revise and improve their original draft. Students also write a persuasive letter, a speech, and a script. This course teaches and reinforces spelling rules, such as i before e, while also focusing on the spelling of words ending in a silent e, commonly misspelled words, and words with multiple syllables. Students sharpen their research skills by learning to use notecards for research, gathering information about the same topic from multiple sources, and understanding plagiarism and the importance of writing in their own words. They also practice citing sources by creating a bibliography. Students enhance their presentation skills by reporting on a text or topic, telling a story, retelling an experience, or presenting an opinion in an organized way while using facts and details to support the main idea. This course includes a printed Parent and Teacher Guide that will help you support your student's learning.

Primary Grade: 5

Grade Range: 5

Full-Year, Semester Based: 1 credit

Auto-Graded



## English Language Arts 6

English Language Arts 6 introduces and builds the fundamental skills of English language arts, including reading, writing, speaking, listening, and using language. This course helps transition students from an elementary setting to the middle school learning environment. Students explore a variety of texts from a range of time periods, literary genres, and writers. From classic authors to contemporary creative writers, students study the use of language and literary devices to improve reading comprehension and to apply to their own skill sets. In addition to reading, students strengthen their writing skills through several modes of composition, such as entertainment, persuasive, poetic, and expository texts. They learn how to construct a well-written five-paragraph essay. Notably, students learn to conduct research, cite sources in MLA formatting, and compose a formal research essay. The final topic of the course provides the opportunity for students to either read a novel or examine a variety of excerpts from novels. This topic encompasses the fundamental skill sets built throughout the year. Students complete creative projects such as creating an original piece of folklore and writing an original poem. These projects encourage students to highlight their talents and skills. This course emphasizes the importance of independent and creative thinking and integrates social-emotional learning.

Primary Grade: 6

Grade Range: 6

Full-Year, Semester Based: 1 credit

Auto-Graded

## English Language Arts 7

English Language Arts 7 extends beyond the five fundamental English language arts skills of reading, writing, speaking, listening, and understanding language. This course exposes students to a variety of texts from a range of time periods, literary genres, and writers. From classic texts to contemporary creative writers and Evan-Moor pieces, students analyze fiction and nonfiction literature, examining and interpreting multiple literary devices within a single piece. In addition to reading, students strengthen their writing skills through narrative, informative, and persuasive compositions. They apply these forms of writing in essays, speeches, presentations, and other media. Students also compose an MLA-style research essay that includes headings, citations, and a Works Cited page. In addition, students produce a professional technical, or how-to, text that includes concise directions and images. The final topic of the course presents a wealth of valuable real-world skills. Notably, students practice important life skills such as letter writing, filling out forms, and interviewing, while exploring career interests. Additionally, grammar is integrated regularly throughout the course to introduce and reinforce age-appropriate grammatical concepts. These lessons parallel the main lessons, and at the end of each grammar unit, students complete a summative workshop to apply the skills taught within that unit. Lastly, students complete creative projects, such as a family tree, an original narrative short story, a reinvention of themselves as a superhero, a song, and a writing portfolio. These projects and activities showcase students' abilities based on their learning styles. Overall, this course supports critical thinking and independent learning and application, while also incorporating social-emotional learning opportunities.

Primary Grade: 7

Grade Range: 7

Full-Year, Semester Based: 1 credit

Auto-Graded

For the 2024-2025 school year

## English Language Arts 8

English Language Arts 8 introduces students to literature and informational texts. Through lessons on the literary elements, the structure of texts, and the basics of grammar and composition, students apply analytical thinking skills to the works that they read. Students also delve into poetry in this course by dissecting the structure of poems, the language, and the terminology that is often affiliated with the genre. Students also apply their listening and speaking skills through presentations and projects.

Primary Grade: 8

Grade Range: 8

Full-Year, Semester Based: 1 credit

Auto-Graded

## English Language Arts 9

English Language Arts 9 utilizes works of fiction and nonfiction from classic to modern times to introduce students to key literary elements. Students develop skills in literary analysis and interpretation by reading and examining plot, setting, character, narrator, voice, tone, mood, symbolism, irony, and other literary elements. In addition, students examine form, style, and persuasion in nonfiction works. In this course, students strengthen their vocabulary, grammar skills, and use of mechanics. They also focus on mastering the stages of the writing process and further developing their research and presentation skills.

Primary Grade: 9

Grade Range: 9, 10

Full-Year, Semester Based: 1 credit

NCAA Eligible

Auto-Graded

## English Language Arts K

English Language Arts K encompasses reading, writing, speaking, spelling, and listening skills for students who are emerging learners. This course places a heavy emphasis on the alphabet, as students learn letter names and both uppercase and lowercase letters. Students also learn letter sounds and how to articulate and blend those sounds. English Language Arts K focuses on building reading skills through the use of high-frequency sight words—common prepositions, nouns, verbs, and adjectives. Through grade-level appropriate readings, students explore story elements and the ways in which pictures relate to text. They also learn to summarize a text and to compare and contrast characters, events, and ideas within texts. This course teaches foundational grammar and writing skills, including proper capitalization, spacing between words, and sentence punctuation. Students learn to print words and write complete sentences. Interactive activities throughout the academic year help students to develop their speaking and listening skills as well. This course includes a printed Parent and Teacher Guide that will help you support your student's learning.

Primary Grade: K

Grade Range: K

Full-Year, Semester Based: 1 credit

Auto-Graded  
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## Exploring Cinema

Exploring Cinema introduces students to film-making and cinematic productions. In this course, students explore the technology used to create a film and begin to build an aesthetic appreciation of films. Students also explore media art and the ethics of media creation, giving them a wider perspective on the different ways material can be presented.

Primary Grade: 12

Grade Range: 11, 12

Half-Year, Semester Based: 0.5 credit

Auto-Graded

## Greek and Roman Mythology

In Greek and Roman Mythology, students explore myths from Greece and Rome. They examine the history of mythology and some of the key gods and goddesses. Students learn to connect the cultures of ancient Greece and Rome with the culture of today. Throughout this course, students use technology and artistic practices to express their knowledge. In addition, they explore vocabulary, literary, and narrative elements, in addition to writing through the lens of mythology. Students work through the process of writing myths of their own through planning, drafting, revising, and publishing.

Primary Grade: 10

Grade Range: 9, 10

Full-Year, Semester Based: 1 credit

NCAA Eligible

Auto-Graded

## Introduction to College Writing

Introduction to College Writing prepares students to create freshman writing pieces as they move toward their post-secondary education. In this course, they learn the skills necessary to build a solid foundation for basic college writing as they focus on informative and persuasive writing. Students practice organization, tone, and style in their work to ensure that they are well-rounded and skilled writers. Finally, students discover how to locate and present research and evidence in a logical, well-organized manner.

Primary Grade: 12

Grade Range: 11, 12

Half-Year, Semester Based: 0.5 credit

NCAA Eligible

Auto-Graded

## Media Writing

Media Writing is designed for students who are interested in careers in broadcast journalism, communications, or media. In this course, students explore the basics of media writing in addition to careers in print, online, and broadcast media. Students investigate the numerous styles of writing for a number of applications, including newspapers, magazines, audio broadcasts, video broadcasts, and the Internet. In addition, students practice researching, locating, and using sources that are reliable and valid.

Primary Grade: 12

Grade Range: 11, 12

Half-Year, Semester Based: 0.5 credit

Auto-Graded

## Poetry

Poetry is a course for students who are interested in learning more about different types of poetry and writing their own poetry. In Poetry, students explore the elements of a poem, including theme, poetic devices, rhyme, meter, and word choice. Students evaluate different poetic structures and draft and create their own poems in these structures. In this course, students use evidence to support analysis, conduct research, and write research papers.

Primary Grade: 10

Grade Range: 9, 10

Half-Year, Semester Based: 0.5 credit

NCAA Eligible

Auto-Graded

## Short Stories

Short Stories exposes students to the basic characteristics, writing style, and literary elements of a story. From characters, point of view, and setting to techniques such as suspense and irony, students learn how short stories provide readers with the opportunity to experience different storylines in a precise and defined format. Students become acquainted with the compact nature of the short story literary form and each author's ability to weave exciting, interesting narratives in such short, tight spaces. Students learn the importance of being concise, recognizing that good literature does not necessarily have to be lengthy in order to be captivating.

Primary Grade: 10

Grade Range: 9, 10

Half-Year, Semester Based: 0.5 credit

NCAA Eligible

Auto-Graded

## Technical Writing

Written-communication skills and professional documentation are central to the Technical Writing course. This course enables students to analyze a variety of real-world documents and allows them to perfect their technical writing abilities. Students encounter numerous types of technical writing, including journal writing, email drafting, persuasive writing, memo creation, letter drafting, and marketing and advertising, allowing them to build upon their own technical writing skills and knowledge. Students are also given an assortment of project-based assignments throughout the course.

Primary Grade: 10

Grade Range: 9, 10

Half-Year, Semester Based: 0.5 credit

Auto-Graded

## World and Cultural Mythology

World and Cultural Mythology is the perfect course for students looking for an interactive way to learn about mythology and myths from around the world. The course focuses on different dynamics of myths and analyzes aspects of myths found in different cultures. The course looks at the type of writing styles used in different myths, including common terminology, sentence structure, and writing techniques. Finally, students evaluate mythical places and sacred locations, including the characters commonly found in myths, such as gods, goddesses, monsters, heroes, and deities.

Primary Grade: 12

Grade Range: 11, 12

Half-Year, Semester Based: 0.5 credit

NCAA Eligible

Auto-Graded

## World Literature

In World Literature, students explore a wide variety of literary styles, artists, and mediums from cultures and societies around the globe. Students analyze different forms of writing, including fiction and nonfiction, and they evaluate how authors from different areas, religious backgrounds, genders, and cultures use the written word to express thoughts and opinions and tell poignant stories.

Primary Grade: 11

Grade Range: 11, 12

Half-Year, Semester Based: 0.5 credit

NCAA Eligible

Auto-Graded

## Mathematics

### Algebra I

In Algebra I, students explore roots, function patterns, graphs, equations, and inequalities. They will also transform and compare functions. Students will describe and translate graphic, algebraic, numeric, and verbal representations of relations and use those relationships to solve problems. Students will develop computational, procedural, and problem-solving skills throughout this course, building a solid foundation for further studies in mathematics.

Primary Grade: 9

Grade Range: 8, 9, 10

Full-Year, Semester Based: 1 credit

NCAA Eligible

Auto-Graded

### Algebra II

In Algebra II, students analyze situations verbally, numerically, graphically, and symbolically. Students solve equations and inequalities. They extend their knowledge of algebraic expressions, absolute value, functions, and graphs. This course prepares students for more difficult mathematical concepts and content.

Primary Grade: 11

Grade Range: 9, 10, 11, 12

Full-Year, Semester Based: 1 credit

NCAA Eligible

Auto-Graded

### Applied Mathematics

Applied Mathematics covers the fundamental mathematics necessary for students to obtain a broad range of skills. Although problems in this course apply to a variety of topics from Algebra to Geometry, emphasis is given to real-world applications. Students write and solve linear equations to represent situations such as the value of a car or the distance that a plane travels during a trip. They also learn to solve quadratic equations and find the maximum value of quadratic equations. Students explore area, perimeter, and volume, and then they apply these concepts to situations such as building a swimming pool. Students calculate conversions between the U.S. customary system of measurements and the metric system. Geometry concepts presented in this course include the Pythagorean Theorem, using similar triangles, finding dimensions, and interpreting scale on a map. Finally, students use statistical concepts to interpret data sets and turn those data sets into graphical representations.

Primary Grade: 10

Grade Range: 9, 10, 11, 12

Full-Year, Semester Based: 1 credit

Auto-Graded

## Business Mathematics

In Business Mathematics, students discover a variety of basic mathematical concepts and tools for real-world mathematical application including algebraic equations, formulas, operations using fractions, decimals, and percentages. This course shows students how to work with percentages to solve application problems and how to research investment and insurance options. Students learn to graph a function from an equation, and they work with ratios and proportions. Additionally, students explore the proper methods of preparing and analyzing income statements and balance sheets. They also study the ways in which to calculate real estate loan payments, and they learn to read and interpret graphs to represent data in the business world. This course also discusses mean, median, and mode as it relates to the distribution of data.

Primary Grade: 11

Grade Range: 9, 10, 11, 12

Full-Year, Semester Based: 1 credit

Auto-Graded

## Calculus

Calculus evaluates higher-level mathematics through analytical/algebraic, numerical, graphical, and verbal methods. Students study various components of mathematics, including the investigation of trigonometric functions, probability, and series. Students will strengthen their skills with Pre-Calculus and Trigonometry concepts in preparation for post-secondary coursework. Having a strong calculus knowledge base supports all students, but mostly those students who are interested in careers in the mathematics and engineering fields.

Primary Grade: 12

Grade Range: 12

Full-Year, Semester Based: 1 credit

NCAA Eligible

Auto-Graded

## Consumer Mathematics

In Consumer Mathematics, students learn mathematical concepts that they will use in their daily lives. They focus on real-world topics that require addition, subtraction, multiplication, and division of whole numbers, as well as fractions, decimals, ratios, proportions, and percentages. Students also explore the ways in which real-life activities such as traveling, purchasing a new car or house, or even installing new carpeting relates to mathematics. Consumer Mathematics relates everyday mathematics concepts to concrete definitions, processes, and many real-life situations.

Primary Grade: 11

Grade Range: 9, 10, 11, 12

Full-Year, Semester Based: 1 credit

Auto-Graded

## Geometry

In Geometry, students explore the relationships that exist within geometric figures, such as triangles, circles, and quadrilaterals. Students analyze the relationships and use mathematical postulates and theorems to write proofs. The explored relationships are also used to solve mathematical and real-world problems and to perform geometric constructions. The students are introduced to the concept of probability and to parabolas.

Primary Grade: 10

Grade Range: 9, 10, 11, 12

Full-Year, Semester Based: 1 credit

NCAA Eligible

Auto-Graded

## Mathematics 1

In Mathematics 1, students begin to learn mathematics in a more formal way. They focus on rote counting to 120 and practice reading and writing these numbers. In addition to strengthening their addition and subtraction skills, they compare two-digit numbers using place values and the comparison symbols for greater than, less than, and equal to. Students measure lengths and use measurements to compare the lengths of multiple objects using nonstandard measuring and units. They strengthen their geometry skills by drawing two-dimensional and three-dimensional shapes, and they explore fractions by dividing those shapes into halves and quarters. Students also organize, represent, and interpret data in pictures, tables, and charts. Additionally, they tell and write times in hours and half-hours. This course includes a printed Parent and Teacher Guide that will help you support your student's learning.

Primary Grade: 1

Grade Range: 1

Full-Year, Semester Based: 1 credit

Auto-Graded

## Mathematics 2

In Mathematics 2, students begin developing the necessary skills to solve problems mentally and to explain, by either speaking or writing, how they solved a problem. They learn to count to 1,000 and identify even and odd numbers. Students discover multiple strategies for adding and subtracting numbers, and they determine which strategies work best for various problem types. They work with number lines and use these tools to represent whole numbers, sums, and differences. In this course, students expand their knowledge of place value and utilize this concept to compare numbers. They use standard units of measurement to express the lengths of objects in inches, feet, yards, centimeters, and meters. Mathematics 2 introduces digital and analog time and presents students with word problems involving money. In addition to exploring monetary values, students learn to use the dollar and cent symbols appropriately. Students also deepen their understanding of geometric shapes while dividing shapes into halves, thirds, and fourths. Additionally, students are introduced to new ways of representing data, including line plots, picture



graphs, and bar graphs. This course uses mathematics manipulatives to help students visualize problems and includes a printed Parent and Teacher Guide to help you support your student's learning.

Primary Grade: 2

Grade Range: 2

Full-Year, Semester Based: 1 credit

Auto-Graded

## Mathematics 3

Students in Mathematics 3 focus on multiplication and division, as this course aims to build strong foundational skills in these areas. Students explore the relationship between multiplication and division and practice using properties of operations to solve problems, including one- and two-step word problems. In addition to using place value to perform multi-digit arithmetic, students round numbers to the nearest ten or hundred. They refine their mathematics skills in relation to measurement by measuring liquid volume and mass and to telling time by measuring time intervals in minutes. Mathematics 3 presents area and perimeter to students as they explore linear and area measurements. They also work with fractions as numbers in this course, representing them on number lines, generating equivalent fractions, and comparing fractions with the same numerator and denominator. Finally, students explore the ways in which various types of data can be displayed. This course includes a printed Parent and Teacher Guide that will help you support your student's learning.

Primary Grade: 3

Grade Range: 3

Full-Year, Semester Based: 1 credit

Auto-Graded

## Mathematics 4

In Mathematics 4, students refine their skills in the areas of place value, measurement, geometry, fractions, and decimals. They use the order of operations to solve problems with whole numbers up to 1 million, and they explore factors and multiples ranging from 1 to 100. Students use equations, arrays, and area models to explain multiplication calculations. They compare multi-digit whole numbers, fractions, and decimals using the symbols for greater than, less than, and equal to. Students practice converting measurements, such as feet to inches, and they use their understanding of size to determine whether measurements are reasonable answers to problems. Mathematics 4 introduces students to the protractor, which they use to measure angles in whole number degrees. Students learn to identify right triangles, and they sketch angles, lines, segments, and rays. Students look closely at fractions and decimals in this course by writing equivalent fractions, ordering fractions from least to greatest, comparing fractions with different numerators and denominators, and writing fractions as decimals and vice versa. This course includes a printed Parent and Teacher Guide that will help you support your student's learning.

Primary Grade: 4  
Grade Range: 4  
Full-Year, Semester Based: 1 credit  
Auto-Graded

## Mathematics 5

Mathematics 5 focuses on developing students' mathematics skills and problem-solving strategies. Problems and activities are designed to get students reasoning abstractly and quantitatively, constructing arguments, and modeling with mathematics. In this course, students add, subtract, and multiply fractions, divide fractions by whole numbers, and divide whole numbers by fractions. They perform multiple operations with decimals in addition to comparing, ordering, and rounding them. They use exponents to denote powers of 10. Students are introduced to volume and how to calculate it, and they learn to classify two-dimensional shapes into categories. They also graph data on a plot line and the coordinate plane, using graphs to solve real-world and mathematical problems. This course includes a printed Parent and Teacher Guide that will help you support your student's learning.

Primary Grade: 5  
Grade Range: 5  
Full-Year, Semester Based: 1 credit  
Auto-Graded

## Mathematics 6

Mathematics 6 introduces students to rational numbers and explores the concept of absolute value. Students work with ratios and rates to analyze relationships, and they connect these concepts to percents. Students also apply all four operations to decimal numbers, using the concepts to solve real-world application problems. In this course, students begin their study of Algebra by learning about mathematical expressions, equations, and inequalities. They analyze data and display data using statistical methods. Students also explore two- and three-dimensional shapes.

Primary Grade: 6  
Grade Range: 6  
Full-Year, Semester Based: 1 credit  
Auto-Graded

## Mathematics 7

Students in Mathematics 7 begin their journey on the pathway to developing a strong mathematics framework. They hone their arithmetic skills in this course, preparing them for more difficult and detailed calculations. In this course, students work through fractions and decimals and begin developing algebraic skills by learning to work with and solve two-step equations. Students also explore probabilities, data, and statistics.

Primary Grade: 7

Grade Range: 7

Full-Year, Semester Based: 1 credit

Auto-Graded

## Mathematics 8

Mathematics 8 prepares students for more difficult mathematics courses by exposing students to foundational arithmetic concepts. Students in this course examine the elements of geometry by being introduced to angles, lines, and points. Students apply this knowledge to graphs using coordinate planes and by completing calculations between two points' distances. Students also study scientific notation, which assists them in computations and provides a framework for more difficult calculations. Students will also analyze bivariate data using scatterplots and two-way tables.

Primary Grade: 8

Grade Range: 8

Half-Year, Semester Based: 0.5 credit

Auto-Graded

## Mathematics K

In Mathematics K, students explore the world of mathematics all around them. They begin to develop foundational mathematics skills such as number identification, rote counting to 100 by memory, and place value. They learn the difference between more than and less than and explore the ways in which numbers can be decomposed. Students compare measurements, such as longer and shorter and heavier and lighter. They begin to develop problem-solving skills as they engage with simple addition and subtraction equations and word problems. Finally, students are introduced to basic geometry and learn the names and basic attributes of shapes. This course includes a printed Parent and Teacher Guide that will help you support your student's learning.

Primary Grade: K

Grade Range: K

Full-Year, Semester Based: 1 credit

Auto-Graded

## Pre-Algebra

Pre-Algebra, students explore concepts such as integers, expressions, equations, and fractions. This course provides students with a solid foundation for Algebra I and emphasizes the use of technology, problem solving, critical thinking, and reasoning.

Primary Grade: 8

Grade Range: 7, 8

Full-Year, Semester Based: 1 credit

Auto-Graded

## Pre-Calculus

In Pre-Calculus, students develop a deeper and more thorough understanding of functions and graphs. Graphs that students study range from polynomial and rational to exponential, logarithmic, and trigonometric. Some exponential and logarithmic topics discussed in this course are change of base formulas, properties of logs, growth and decay, and logistic growth models.

Primary Grade: 11

Grade Range: 11, 12

Full-Year, Semester Based: 1 credit

NCAA Eligible

Auto-Graded

## Probability and Statistics

Students enrolled in Probability and Statistics build a strong foundation in calculating probabilities and evaluating statistics. The Probability and Statistics curriculum is designed to cover a half year of instruction but can be completed at each student's own pace. Students enrolled in the course explore representation of statistical data, working with scatter plots, analyzing statistical data using properties and theorems, and more.

Primary Grade: 11

Grade Range: 11, 12

Half-Year, Semester Based: 0.5 credit

NCAA Eligible

Auto-Graded

## Trigonometry

Trigonometry is offered for students who want to continue a rigorous study of mathematics. The course begins by reviewing the real number system, characteristics of functions, and solving equations. Topics from right-triangle trigonometry lead to an in-depth study of the unit circle and trigonometric functions, their graphs, and their inverses. In their study of analytic trigonometry, students verify identities and solve trigonometric equations. The course covers the Law of Cosines, the Law of Sines, and vectors. It closes with a complete study of conics, parametric equations, and polar curves. Before enrolling in this course, students should have completed Algebra II and Geometry.

Primary Grade: 11

Grade Range: 11, 12

Half-Year, Semester Based: 0.5 credit

NCAA Eligible

Auto-Graded

## Science

### Anatomy and Physiology

Anatomy and Physiology allows students to discover the fascinating dynamics of the human body. Students begin by exploring the history of anatomy, essential anatomical terminology, and the hierarchical organization of the human body. Next, students are introduced to basic biochemistry and cellular processes, which includes a virtual tour of the cell. Students also investigate the structure, function, hierarchy, and diseases associated with each organ system. Completion of one full year of high school Biology is required in order to understand the numerous biological concepts presented in this course.

Primary Grade: 12

Grade Range: 10, 11, 12

Half-Year, Semester Based: 0.5 credit

NCAA Eligible

Auto-Graded

### Astronomy

In Astronomy, students begin by discussing basic astronomical concepts and discoveries throughout history. They take an in-depth look at the first moments of the universe by studying the Big Bang. From there, they investigate the evolution of the universe, beginning with the first atoms and moving on to explore elements, stars, solar systems, and galaxies. Students gather information to determine if there is a possibility of life on other planets and in other solar systems. Students analyze the major space missions that have led to the modern study of cosmology, and they explore the possibilities of where this field may take scientists in the future.

Primary Grade: 11

Grade Range: 10, 11, 12

Full-Year, Semester Based: 1 credit

NCAA Eligible

Auto-Graded

For the 2024-2025 school year

## Biology

Biology follows the adventures of two Lincoln High School students, Zeke and Chloe, as they explore the fascinating world of the biological sciences. As members of the BioLINC Club, organized by their teacher Mr. Quinn, they attend field trips and conduct laboratory activities to learn more about topics in Biology. Students begin by exploring the foundations of biology, the chemistry of life, and the structure and function of cells. Then, they dive into the basics of cellular energy, including photosynthesis and cellular respiration. Next, cellular development and reproduction are explored, including mitosis and meiosis. The principles of heredity and the manipulation and testing of DNA are also examined. Semester one concludes with a look at the history of life, including the fossil record and geologic time scale. During semester two, students investigate the principles of evolution and how populations change over time. Students continue by studying the basics of ecology and how organisms are intertwined within communities. The ecosystems within the biosphere are explored, as well as the impacts humans have on Earth's environment. Next, the classification system used to categorize organisms on Earth is explored, and the behaviors of animals are studied. Finally, the course culminates with a look at how organisms maintain homeostasis and how human body systems work.

Primary Grade: 9

Grade Range: 9, 10

Full-Year, Semester Based: 1 credit

NCAA Eligible

Auto-Graded

## Chemistry

Chemistry takes students on a journey with Elena Gilbert, a crime scene investigation intern, who applies the fundamentals of chemistry to CheMYSTERY crime scene investigations at the conclusion of each topic. The journey begins with an exploration of scientific practices, laboratory safety guidelines, and measurement skills. Next, students work through the properties of matter, atomic theory and structure, and quantum mechanics. The history and organization of the periodic table precedes exploring the basics of chemical bonding, rules for naming compounds, proper construction of chemical formulas, and methods of chemical quantification. Semester one concludes by investigating the types of chemical reactions and balancing chemical equations. During semester two, students begin with conducting stoichiometric calculations, studying the behavior of gases, and investigating the nature of solutions. Next, the world of thermochemistry is explored, as well as the concept of equilibrium. Students continue into an investigation of acids, bases, and salts and the concept of oxidation-reduction reactions. The course culminates with a look at specialty areas of chemistry, including nuclear chemistry, organic chemistry, biochemistry, and electrochemistry. As a prerequisite to Chemistry, students must have completed Algebra I with a passing grade of C or better.

Primary Grade: 10

Grade Range: 10, 11, 12

Full-Year, Semester Based: 1 credit

NCAA Eligible

Auto-Graded

## Earth Science

In Earth Science, students discover the theories about how Earth first formed. They explore Earth's history and the different geologic processes that continually take effect and help to shape the planet. Students debate the ways in which human impacts affect the Earth's climate, and they view Earth as a body within the solar system and universe. They also review Earth's renewable and finite resources. The course concludes with a virtual tour of Earth's atmosphere and oceans.

Primary Grade: 10

Grade Range: 9, 10, 11

Full-Year, Semester Based: 1 credit

NCAA Eligible

Auto-Graded

## Environmental Science

Environmental Science introduces students to the scientific method, terrestrial and aquatic ecosystems, biomes of the world, trophic interactions, and nutrient and chemical cycles. Students analyze the human impact on the environment and ways to reduce negative consequences. Students also investigate environmental issues first hand and use their discoveries to make environmental decisions for themselves.

Primary Grade: 10

Grade Range: 9, 10

Half-Year, Semester Based: 0.5 credit

NCAA Eligible

Auto-Graded

## Forensic Science

Students enrolled in Forensic Science will develop a better understanding of the reality of forensic science, which is often contradicted by the fictional forensic science portrayed in entertainment. Students begin by exploring the history and background of forensic science. They discover several forensic science disciplines, such as pathology, anthropology, toxicology, serology, entomology, and odontology. Students learn and use proper lab practices in order to ensure the integrity of any collected organic and inorganic evidence. Students investigate chromatography, spectroscopy, and microscopy techniques. They also explore and survey the impact that DNA analysis and questioned document analysis have on forensic science. This course teaches the proper handling of impression evidence, such as prints from shoes, feet, tires, lips, and fingers, as well as firearm impressions. Students also examine the analysis of trace evidence, including hair and glass. The course concludes with an exploration into the ways in which forensic science is interconnected with the legal system, as well as what the future holds for forensic science. Students will participate in numerous hands-on labs, including measuring a hypothetical time of death, extracting their own DNA, and analyzing their own fingerprint impressions. Forensic Science is ideal for high school students who are interested in forensic science, biology, law, and/or criminalistics. Completion of one full year of high school Biology is required in

order to evaluate the numerous biological concepts present in this course. In addition, students must be mature, independent learners and must be comfortable with learning new technology.

Please note that the concepts discussed in any forensic science course are intended for mature and responsible students only. Delicate and sensitive concepts related to forensic science will be discussed in a respectful and straightforward manner.

Primary Grade: 11  
Grade Range: 10, 11, 12  
Half-Year, Semester Based: 0.5 credit  
NCAA Eligible  
Auto-Graded

### Fundamentals of Ecology

Fundamentals of Ecology allows students to explore the ways in which organisms interact with their surrounding environments. Students will investigate ecological principles, such as natural selection, population and population dynamics, biodiversity, and the sustainability of ecosystems. Students also analyze major ecological challenges and the different ways society is working to mitigate these challenges.

Primary Grade: 10  
Grade Range: 9, 10, 11  
Half-Year, Semester Based: 0.5 credit  
NCAA Eligible  
Auto-Graded

### Introduction to Engineering

Introduction to Engineering provides students with an overview of the field of engineering and the primary processes and procedures used by engineers. Students explore engineering careers and their impacts on society, and they learn how mathematics and science are used in the field of engineering. They examine different engineering disciplines, the engineering design process, and various engineering styles and methods used in the field. Students take part in hands-on learning as they work through a real-life design problem and solve it through the steps of the engineering design process. The course concludes with a student-created presentation to demonstrate their solution to the design problem. Introduction to Engineering is an excellent addition to a STEM-centered curriculum.

Primary Grade: 10  
Grade Range: 9, 10, 11  
Half-Year, Semester Based: 0.5 credit  
Auto-Graded



## Middle School Earth and Space Science

In Middle School Earth and Space Science, students study the planet Earth and the extensive solar system structure in which it resides. They evaluate Earth's climate and its weather patterns and changes, and they learn about life science and how chemistry and physics play a role in Earth's major processes. Students also investigate climate change and the ways in which global warming impacts Earth. By evaluating the numerous facets of our planet, students prepare for higher level and more subject-specific science courses.

Primary Grade: 6

Grade Range: 6, 7, 8

Full-Year, Semester Based: 1 credit

Auto-Graded

## Middle School Life Science

Middle School Life Science introduces students to an integrated approach to physical and life sciences. Students study science concepts and problem solving while exploring the many aspects of the living and nonliving world around them. Students review numerous cycles of life and study their impact on animal, plant, and human life. Students also investigate important topics in histology, heredity, and the biology of living organisms.

Primary Grade: 7

Grade Range: 6, 7, 8

Full-Year, Semester Based: 1 credit

Auto-Graded

## Middle School Physical Science

Middle School Physical Science introduces students to the foundational concepts of both physics and chemistry. Students begin by studying topics related to the nature of science and engineering, where they gain the skills necessary to succeed in inquiry-based and engineering labs. They move on to learn the general principles of chemistry and physics, including matter and energy, chemical reactions, motion and forces, and interaction of waves. This course allows students to explore these major concepts through unique labs based on real-world phenomena.

Primary Grade: 8

Grade Range: 6, 7, 8

Full-Year, Semester Based: 1 credit

Auto-Graded

## Physical Science

Physical Science students are introduced to the principles of chemistry and physics so that they may develop a better understanding of atoms, chemical reactions, and nuclear interactions. Students explore the properties and states of matter and investigate chemical bonds and reactions. Students will investigate the development of the periodic table, an outline of modern atomic theory, and organic and nuclear chemistry. Additionally, students study Newton's laws of motion while considering the interactions between motion, forces, energy, and thermodynamics. As a prerequisite to Physical Science, students must have completed Algebra I.

Primary Grade: 9

Grade Range: 9, 10, 11, 12

Full-Year, Semester Based: 1 credit

NCAA Eligible

Auto-Graded

## Physics

Students enrolled in Physics advance their knowledge and understanding of concepts in previous general science courses. In this course, students examine classical mechanics while learning to calculate concepts in one-dimensional, two-dimensional, and circular motion. Students explore work and energy in addition to the concepts of waves, sound, light, optics, and electromagnetism. The course concludes with an analysis of nuclear physics and a debate on quantum physics. This course requires students to use fundamental algebra and analytical skills to solve problems and analyze situations. As a prerequisite to Physics, students must have completed Algebra I. While the completion of Trigonometry is not required, a pre- or corequisite of Trigonometry will allow students to be better prepared for calculations involving dynamics, vectors, and kinematics.

Primary Grade: 11

Grade Range: 10, 11, 12

Full-Year, Semester Based: 1 credit

NCAA Eligible

Auto-Graded

## Science 1

Science 1 extends students' exploration of the natural world. Along the way, they practice making predictions and observations, experimenting, and using scientific tools and problem-solving skills. In this course, students investigate animals and plants, identify the basic needs of all living things, and compare and contrast plant and animal families. They examine how humans solve problems by mimicking plant and animal structures and functions. This course also introduces patterns of the sun, the moon, stars, and Earth that can be predicted. Students observe and discover the properties of light and sound and learn ways to communicate with light and sound. Finally, students develop their ability to distinguish problem from solution and recognize the relationship between cause and effect. This course includes a printed Parent and Teacher Guide that will help you support your

student's learning.

Primary Grade: 1

Grade Range: 1

Half-Year, Semester Based: 0.5 credit

Auto-Graded

## Science 2

Science 2 encourages students to make sense of the world around them by observing and experimenting. Through focused readings and hands-on activities, students explore Earth and the matter that makes up its surface. They study the relationship between plants and animals through pollination and seed dispersion. They look deeply into several habitats on Earth and the plants and animals that live and grow there. Students examine and compare many different landforms and bodies of water. They research topics and formulate questions, make predictions, and then use scientific tools to observe and test their experiments. By recognizing patterns, solving problems, and identifying cause and effect, students develop the ability to make inferences and communicate their findings. This course includes a printed Parent and Teacher Guide that will help you support your student's learning.

Primary Grade: 2

Grade Range: 2

Half-Year, Semester Based: 0.5 credit

Auto-Graded

## Science 3

Science 3 guides students on an exploration of the natural world, its animals, its plants, and its habitats. Students examine some of Earth's major biomes and identify how adaptations help plants and animals to survive varying conditions. They will learn about life cycles and ways in which organisms' traits may provide advantages in surviving and finding mates in order to reproduce. Students become junior meteorologists and learn to explain weather and climate, and they use weather instruments and knowledge of patterns to observe and predict the weather. They also learn to recognize how fossils are formed and about the information fossils can provide about Earth's past, using geologic time scales to identify the eras when fossilized organisms lived. They explore the ways in which force and motion are related, and they investigate energy, magnetism, and electricity. Finally, students research topics and formulate questions, make predictions and observations, experiment and use evidence, and draw inferences and identify patterns based on their scientific inquiries. This course includes a printed Parent and Teacher Guide that will help you support your student's learning.

Primary Grade: 3

Grade Range: 3

Full-Year, Semester Based: 1 credit

Auto-Graded

## Science 4

Science 4 lays a foundation for future excellence in the STEM fields by introducing technology and engineering concepts, such as simple and complex machines and the steps of the engineering design process. This course encourages students to become innovative problem-solvers, equipped with the skills and knowledge necessary to address twenty-first century issues. Students explore the technical and sometimes surprising facts behind the things they see and experience every day. They expand their knowledge and understanding of topics in the areas of physics, chemistry, Earth science, ecology, biology, and space science. Students investigate genetics and the physical characteristics of living things, ecosystems and extinction, agriculture and sustainable resources, and pollution and recycling. They explore the Earth's landforms and the types of rocks and soil found on Earth. They extend their learning beyond their own planet to the solar system and the Milky Way. Finally, students encounter important concepts in physics, such as the types and properties of waves, and in chemistry, such as atoms, molecules, and the conservation of mass. This course includes a printed Parent and Teacher Guide that will help you support your student's learning.

Primary Grade: 4

Grade Range: 4

Full-Year, Semester Based: 1 credit

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## Science 5

Science 5 puts the emphasis on doing science. Students build their knowledge by crafting models, conducting experiments, creating terrariums, and making electromagnets. They learn about plant and animal cells and their functions; photosynthesis; and the roles of producers, consumers, and decomposers in an ecosystem. Students explore the global water cycle, the negative impacts of weather, and the relationship between weather and climate. They deepen their understanding of their home planet by investigating landforms, volcanic activity, the layers of the Earth's atmosphere and geosphere, the tilt of the Earth's axis, the impacts of its revolution around the Sun, and the Sun's role as a source of energy for life on Earth. Students are introduced to elements as the basic substances of all matter and the relationship between matter and particles. This course also covers the core concepts of physics, including energy transformation, gravitation, and Newton's first and second laws of motion. Students design simple and parallel circuits and use the engineering design process to generate solutions to real-world problems. Finally, they conduct research, formulate questions, make predictions and observations, conduct fair tests using the scientific method, record their findings, and draw conclusions for future investigation. This course includes a printed Parent and Teacher Guide that will help you support your student's learning.

Primary Grade: 5

Grade Range: 5

Full-Year, Semester Based: 1 credit

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## Science 6

Science 6 takes students on a journey that incorporates life science, Earth and space science, and physical science concepts. Students begin by studying topics related to the nature of science and engineering, and they gain the skills necessary to succeed in investigations and engineering labs within the course. They learn how matter and energy interact and aid in creating the world around them. Students discover the unique properties of Earth that make it a sustainable planet for living organisms. Students will take an in-depth look at cells and their specialized structures, a variety of habitable ecosystems, and the abilities plants and animals have to adapt to various surroundings. Along with learning about the life on Earth, students will study the atmosphere and weather that has made Earth habitable for humans. They investigate ways to be more environmentally conscious by exploring how populations are affected by various environmental factors. Students work toward discovering solutions to these problems. This course includes multiple-day projects and hands-on labs, which are driven by real-world phenomena and meaningful story lines.

Primary Grade: 6

Grade Range: 6

Full-Year, Semester Based: 1 credit

Auto-Graded

## Science 7

Science 7 integrates life science, Earth and space science, and physical science, while incorporating both engineering and scientific methods. In this course, students explore the ways in which humans have an impact on Earth's ecosystems and resources. They study the different forces at work on Earth and throughout the universe, learning about their importance in technologies and everyday phenomena. Students also investigate evidence of past life on Earth and how it evolved into the life that exists today. This course allows students to dig deeper into the inheritance of organisms and how these organisms adapt to their environments. Finally, students are introduced to waves, exploring how both sound and light waves are used in communication. This course includes multiple-day engineering design projects and hands-on labs, which are driven by real-world phenomena and meaningful story lines.

Primary Grade: 7

Grade Range: 7

Full-Year, Semester Based: 1 credit

Auto-Graded

## Science 8

Science 8 combines the subjects of life science, Earth and space science, and physical science, while incorporating both engineering and scientific methods. Students further their knowledge of the interactions of matter, learning about the properties of the periodic table and how reactions occur. Next, students learn about reproduction in cells and inheritance. In this part of the course, students analyze the difference between types of reproduction in cells, leading them to determine how traits and genetic differences in DNA occur. Students travel back in time and determine how clues from life in the past help to explain, map, and classify existing life on Earth. Students also explore ecosystems and how precious they are to life on Earth, analyzing how even the smallest impacts can have large effects on populations. Finally, students investigate wave technologies and how those technologies are used on Earth for advancements in science and economic growth.

Primary Grade: 8

Grade Range: 8

Full-Year, Semester Based: 1 credit

Auto-Graded

## Science K

Science K introduces emerging learners to the knowledge and skills that will help them discover and understand the natural world around them. In this course, students learn to formulate questions, to predict, and to investigate. They use basic scientific tools, such as a magnifying glass, a ruler, and a thermometer, to make observations and draw on those observations to communicate their findings. They learn to use their five senses as observational tools as well. They deploy their observational skills to describe animals and plants, their basic needs for survival, and their environments. Students discover the effect of sunlight on Earth's surfaces and the difference between sun and shade. Students explore weather types, weather patterns, and seasonal changes. They also examine the characteristics of force, including the difference between a push and a pull. This course includes a printed Parent and Teacher Guide that will help you support your student's learning.

Primary Grade: K

Grade Range: K

Full-Year, Semester Based: 1 credit

Auto-Graded

## Sports Medicine

Sports Medicine provides students with a basic knowledge of the history of sports medicine, the anatomy of the human body, and common injuries that occur in sports. In addition, the course discusses techniques used in sports medicine to train and strengthen the body, treatments for injury and disease, and proper nutrition for athletes. Completion of one full year of high school Biology is required in order to evaluate the numerous biological concepts present in this course.

Primary Grade: 12

Grade Range: 10, 11, 12

Half-Year, Semester Based: 0.5 credit

Auto-Graded