LET'S LEARN

K12.COM/COURSES
Course materials will be available in various formats, which may include physical and/or digital materials.

**Language Arts Blue (K)**

In this course, students receive structured lessons on readiness skills through emphasis on phonics, language skills, literature, and handwriting to help develop comprehension, build vocabulary, and promote a lifelong interest in reading.

- **Phonics:** PhonicsWorks prepares students to become independent readers through systematic, multisensory instruction in phonemic awareness and decoding skills, using a kit of magnetized letter tiles and a variety of games and activities.

- **Literature and Comprehension:** Plenty of read-aloud literature kindles the imagination while building comprehension and vocabulary. The emphasis is on classic literature—fairy tales, fables, and folktales—including many works that embody exemplary virtues.

- **Language Skills:** Traditional poems, nursery rhymes, and riddles help students develop comprehension, vocabulary, and a love of language. Offline vocabulary instruction is accompanied by online review and practice. “All About Me” lays the foundations of the writing process as students brainstorm, discuss, illustrate, write, and share ideas with others.

- **Handwriting:** Handwriting Without Tears provides gentle instruction to help students print letters correctly.

**Curriculum Items:** K² Language Arts Blue Lesson Guide and Activity Book; K² PhonicsWorks Basic Kit; K² PhonicsWorks Lesson Guide, Activity Book, and Assessment Book; K² Read Aloud Treasury, The Rooster Crows—A Book of American Rhymes and Jingles by Maud and Miska Petersham; Rhyme Time by Tomie dePaola; additional works of literature; K² World Magazines, Handwriting Without Tears: Letters and Numbers for Me Teacher’s Guide and Student Workbook; slate chalkboard; items easily found in the home.

**Language Arts Green (1)**

In this course, students receive structured lessons on readiness skills through emphasis on phonics, language skills, literature, and handwriting to help develop comprehension, build vocabulary, and promote a lifelong interest in reading.

- **Phonics:** There are 36 units in the Phonics program. Each unit contains five lessons. In the first four lessons, students learn new skills or practice what they’ve previously learned. The fifth lesson in each unit begins with online review and practice activities that reinforce skills learned in the unit, and is followed by an offline unit assessment. In some lessons, students will read an online decodable reader. These are short, interactive stories that consist entirely of words students are able to read. Students will acquire the critical skills and knowledge required for reading and literacy.

- **Literature and Comprehension:** The K² Language Arts Literature and Comprehension program consists of 24 units with reading selections from the Classics anthology, nonfiction magazines, trade books, and other books students choose for themselves. Students will listen to and read a variety of poetry, fiction, and nonfiction to develop their reading comprehension skills.
**Handwriting:** Students will further develop their handwriting skills through *Handwriting Without Tears*. In Semester 1, students will work in the *My Printing Book*. In Semester 2, students will practice handwriting on their own.

**Spelling:** There are 18 units in K² Spelling, which begins in the second semester of Grade 1. Each unit contains five lessons. The first lesson of a unit introduces new spelling words. In the second and third lessons, you and your students work together to practice the spelling words introduced in the first lesson. There is an online review in Lesson 4 and an offline assessment in Lesson 5. Students will master the spelling skills needed to read and write proficiently.

**Vocabulary:** K² Vocabulary exposes students to a wide variety of words. Students will learn, review, and practice words online. There are 18 units in K² Vocabulary. In the first 8 lessons of each unit, students will study 3 sets of related words. Lesson 9 of each unit is a review of all the words. The 10th lesson is always a Unit Checkpoint, testing students on all the words they studied.

**Writing Skills:** The program includes 18 alternating units of Grammar, Usage, and Mechanics lessons and Composition lessons. In odd-numbered units, students will learn grammar, usage, and mechanics skills that will help them communicate in standard English. The fourth lesson of each unit is an online review of the unit’s skills, and the fifth lesson is an offline assessment. In even-numbered composition units, students will also learn techniques for planning, organizing, and creating different kinds of writing. Each unit starts with a journal assignment that will help get students writing and generating ideas to be used in their writing assignments. The program includes rubrics and sample papers to help evaluate students’ work.

**Curriculum Items:** My Printing Book; Journal; Language Arts Green Spelling Handbook; K² Literature and Comprehension Support Materials; Green Activity Books 1 and 2; Story Cards; Grab bag Green Assessments Books; K² Language Arts Green Lesson Guides and Activity Books; K² PhonicsWorks Basic and Advanced Kits; K² PhonicsWorks Advanced Sight Word Cards; K² PhonicsWorks Readers Advanced; K² PhonicsWorks Advanced Lesson Guide Book 1 and Book 2; K² PhonicsWorks Advanced Activity Book; K² PhonicsWorks Advanced Assessment Book 1 and Book 2; accomplishments chart and stickers; dry erase board; markers and eraser; accomplishments chart and stickers

**Additional Curriculum Items:** Additional works of literature, including *Listen My Children: Poems for First Graders; Ready, Set, Read, Classics for Young Readers*; items easily found in the home

**Language Arts Orange (2)**

This course provides a comprehensive and interrelated sequence of lessons for students to continue building their proficiency in literature and comprehension, writing skills, vocabulary, spelling, and handwriting.

**Literature and Comprehension:** A guided reading approach builds comprehension strategies and gradually transitions students to independent reading assignments. Leveled reading selections progressively expose students to new challenges, including greater length, more complex content, and new vocabulary. The emphasis is on classic literature from many cultures, poetry, and nonfiction articles. Students also make their own reading choices to help foster a lifelong love of reading.
• **Writing Skills**: Students learn about parts of speech, usage, capitalization, and punctuation, then apply this knowledge as they write sentences and paragraphs. Students are introduced to the process of writing, as they pre-write, draft, revise, and proofread their work before they share it with others. Written products include letters, poems, literature reviews, research reports, and presentations.

• **Vocabulary**: Students increase their vocabulary through word study, comprehension, and word analysis, then apply their knowledge in a variety of authentic contexts.

• **Spelling**: Students continue their exploration of spelling conventions with lessons in sound–symbol relationships and patterns.

• **Handwriting**: *Handwriting Without Tears* helps students develop printing skills and, if appropriate, begin cursive handwriting.

**Curriculum Items**: K12 Language Arts Orange Lesson Guide, Activity Book, and Assessment Book; *Listen, My Children: Poems for Second Graders*, from Core Knowledge; K12 Classics for Young Readers, Vol. B; *Surprises*, a book of poems selected by Lee Bennett Hopkins; Additional works of literature, K12 World Magazines; *Handwriting Without Tears: Printing Power* Teacher’s Guide and Student Workbook; items easily found in the home

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**Language Arts Purple (3)**

In this course, students receive structured lessons in the language arts, a discipline which includes literature and comprehension, writing skills, vocabulary, spelling, and handwriting. The purpose of these lessons is to increase reading comprehension, develop fundamental skills in oral and written communication, build vocabulary, and promote a lifelong interest in reading. This course addresses current thinking in assessment standards.

**Literature and Comprehension**: Within this program, students will read a variety of poetry, fiction, and nonfiction. The reading selections in each unit share a common theme, topic, or genre. The accompanying lessons will develop students’ literal and inferential comprehension skills. Students will read selections from the provided materials and then work online to analyze and examine the selections in more depth. They will work offline to further evaluate the work, make connections among works and the broader world, and apply the skills that they have learned in written assignments and creative projects. Students will also select books that they want to read from a list that is provided and analyze those works. In Critical Skills Practice units, students will practice important test-taking skills by reading passages and answering multiple-choice questions about what they have read. These questions are similar to those found on common standardized assessments and state tests.

**Handwriting**: Students will further develop their handwriting skills through *Handwriting Without Tears*. In Semester 1, students will work in the *Cursive Handwriting* book. In Semester 2, students will practice cursive on their own as they complete assigned work in other language arts programs.

**Spelling**: There are 36 units in K12 Spelling. Each unit contains five lessons. The first lesson of a unit introduces new spelling words. In the second and third lessons, you and your students work together to practice the spelling words introduced in the first lesson. These first three lessons are offline. The fourth lesson in each unit is an online review activity. Finally, the fifth lesson consists of an offline Unit Checkpoint that checks students’
mastery of the spelling words. Each lesson is designed to take approximately 15 minutes. Students will master the spelling skills needed to read and write proficiently.

**Vocabulary:** K12 Vocabulary exposes students to a wide variety of words. Students will learn, review, and practice words online. K12 Vocabulary is made up of 18 units of 10 lessons each. Lessons are entirely online. Each lesson should take about 10 minutes. In the first 8 lessons of each unit, students will study 3 sets of related words.

Lesson 9 of each unit is a review of all the words. Lesson 10 is always a Unit Checkpoint, testing students on all the words they studied.

**Writing Skills:** Writing Skills units combine online and offline activities to teach students about grammar, usage, and mechanics, as well as how to plan, write, revise, proofread, and publish various forms of writing. For example, in Unit 4, students will learn about combining sentences and strategies for writing a personal story. Most units end with an assessment on language skills, along with rubrics and sample papers to help evaluate students’ writing. There are also Critical Skills Practice units that help students apply their knowledge of language, vocabulary, spelling, and writing strategies to answer questions, similar to those on standardized tests, including planning and writing a response to a prompt.

**Curriculum Items:** Language Arts Accomplishment Stickers; 3rd Grade Cursive Teacher’s Guide; Cursive Handwriting – 2008 ed.; The Glory of Greece; George Washington: Soldier, Hero, President; K12 Language Arts Purple Spelling Handbook; K12 Language Arts Purple Accomplishment Chart; K12 Language Arts Purple Activity Books 1 and 2; K12 Language Arts Purple Lesson Guides 1 and 2; K12 Language Arts Purple Assessment Books 1 and 2; K12 Classics for Young Readers, Vol. C; K12 grab bag; K12 My Journal Purple; K12 World: Weather or Not

**Language Arts 4**

This comprehensive course covers reading comprehension; analysis; composition; vocabulary; and grammar, usage, and mechanics, including sentence analysis and diagramming. Structured lessons on spelling enable students to recognize base words and roots in related words, while direct and explicit instruction in vocabulary teaches students to identify and clarify meanings of grade level-appropriate and domain-specific words. Lessons are designed to develop reading comprehension, build vocabulary, and help students become more independent readers. The course emphasizes classic literature. Additionally, students read works of nonfiction as well as four novels selected from a long list of classic titles. This course addresses current thinking in assessment standards.

**Curriculum Items:** Classics for Young Readers, Vol. 4A; Classics for Young Readers, Vol. 4B; Writing in Action, Vol. C; Writing in Action, Vol. D; Exercises in English, Millennium ed. (Level D); Robinson Crusoe by Daniel Defoe (K12 edition, retold for young readers); Feathers, Flippers and Fur; If You Lived in the Days of the Knights by Ann McGovern; Nature’s Way

**Language Arts 5**

This course provides structured lessons on reading comprehension; analysis; composition; vocabulary; and grammar, usage, and mechanics. Through emphasis on spelling, students learn relationships between sounds and spellings in words and affixes. Targeted vocabulary instruction develops students’ ability to identify, clarify, and expand on the meanings of grade level-appropriate and domain-specific words. Lessons are designed to develop comprehension, build vocabulary, and help students become more independent
and thoughtful readers. Students practice writing as they write a memoir, an editorial, a research paper, a business letter, and more. They learn about parts of speech, punctuation, and research skills. Students study literature in a variety of genres, including fiction, poetry, nonfiction, drama, and novels. This course addresses current thinking in assessment standards.

**Curriculum Items:** *Classics for Young Readers, Vol. 5A; Classics for Young Readers, Vol. 5B; American Lives and Legends; Exercises in English, Millennium ed. (Level E); American Tall Tales* by Adrien Stoutenburg; *Bard of Avon: The Story of William Shakespeare* by Diane Stanley and Peter Vennema; *Curious Creatures; Writing in Action, Vol. 5E; Writing in Action, Vol. 5F; I Didn’t Know That!; Don Quixote* by Miguel de Cervantes (K¹² edition, retold for young readers)

**MARK12 Reading I (Adaptive Remediation)**

Mastery. Acceleration. Remediation. K². MARK12 courses are for students in the third to fifth grades who are struggling readers. MARK12 Reading I gives students who are reading several grades below grade level the opportunity to master missed concepts in a way that accelerates them through the remediation process by incorporating adaptivity and online assessments. Students work independently and with a Learning Coach to develop oral reading, comprehension, phonics, spelling, and fluency skills. They also practice grammar, usage, mechanics, and composition. The engaging course features new graphics, learning tools, and games; adaptive activities that help struggling students master concepts and skills before moving on; and more support for Learning Coaches to guide their students to success.

**Curriculum Items:** *MARK12 Reading Lesson Guide, Vol. 1; MARK12 Reading Activity Book, Vol. 1; MARK12 Classics for Young Readers, Vol. 1; Just Write! Levels 1 and 2; online tile kit; items easily found in the home; a speaker and microphone are necessary; a headset combination is recommended*

**MARK12 Reading II (Adaptive Remediation)**

Mastery. Acceleration. Remediation. K². MARK12 courses are for students in the third to fifth grades who are struggling readers. MARK12 Reading II gives students who are reading two or more grades below grade level the opportunity to master missed concepts in a way that accelerates them through the remediation process by incorporating adaptivity and online assessments. Students work independently and with a Learning Coach to develop oral reading, comprehension, phonics, spelling, and fluency skills. They also practice grammar, usage, mechanics, and composition. The engaging course features new graphics, learning tools, and games; adaptive activities that help struggling students master concepts and skills before moving on; and more support for Learning Coaches to guide their students to success.

**Curriculum Items:** *MARK12 Reading Lesson Guide, Vol. 2; MARK12 Reading Activity Book, Vol. 2; MARK12 Classics for Young Readers, Vol. 2; Writing in Action, Level A; online tile kit; items easily found in the home; a speaker and microphone are necessary; a headset combination is recommended*

**MARK12 Reading III (Adaptive Remediation)**

Mastery. Acceleration. Remediation. K². MARK12 courses are for students in the third to fifth grades who are struggling readers. MARK12 Reading III gives students who are reading approximately two grades below grade level the opportunity to master
missed concepts in a way that accelerates them through the remediation process by incorporating adaptivity and online assessments. Students work independently and with a Learning Coach to develop oral reading, comprehension, phonics, spelling, and fluency skills. They also practice grammar, usage, mechanics, and composition. The engaging course features new graphics, learning tools, and games; adaptive activities that help struggling students master concepts and skills before moving on; and more support for Learning Coaches to guide their students to success.

**Curriculum Items:** MARK12 Reading Lesson Guide, Vol. 3; MARK12 Reading Activity Book, Vol. 3; MARK12 Classics for Young Readers, Vol. 3; Writing in Action, Level B; online tile kit; items easily found in the home; a speaker and microphone are necessary; a headset combination is recommended

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**Math Plus Blue (K)**

This research-based course focuses on computational fluency, conceptual understanding, and problem solving. The engaging course features new graphics, learning tools, and games; adaptive activities that help struggling students master concepts and skills before moving on; and more support for Learning Coaches to guide their students to success. This course introduces students to numbers through 30. Students learn through reading, writing, counting, comparing, ordering, adding, and subtracting. They experience problem solving and encounter early concepts in place value, time, length, weight, and capacity. They learn to gather and display simple data. Students also study two- and three-dimensional figures—they identify, sort, study patterns, and relate mathematical figures to objects within their environment.

**Curriculum Items:** Activity book; custom K12 block set; lesson guide book; items easily found in the home

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**Math Plus Green (1)**

This research-based course focuses on computational fluency, conceptual understanding, and problem solving. The engaging course features new graphics, learning tools, and games; adaptive activities that help struggling students master concepts and skills before moving on; and more support for Learning Coaches to guide their students to success. This course extends their work with place value to numbers through 100, emphasizing fluency of addition and subtraction facts, and focusing on number sentences and problem solving with addition and subtraction. Students begin work with money, telling time, ordering events, and measuring length, weight, and capacity with non-standard units. Students identify attributes of geometric figures and also extend their work with patterns and data, including representing and comparing data.

**Curriculum Items:** Activity book; custom K12 block set; lesson guide book; Base 10 blocks set; place-value mat; items easily found in the home

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**Math Plus Orange (2)**

This research-based course focuses on computational fluency, conceptual understanding, and problem solving. The engaging course features new graphics, learning tools, and
games; adaptive activities that help struggling students master concepts and skills before moving on; and more support for Learning Coaches to guide their students to success. This course focuses primarily on number concepts, place value, and addition and subtraction of numbers through 1,000. Special emphasis is given to problem solving, inverse operations, properties of operations, decomposition of numbers, and mental math. Students study money, time, and measurement; geometric figures; analyzing and displaying data with new representations; and determining the range and mode of data. Early concepts about multiplication, division, and fractions are introduced.

**Curriculum Items:** Activity book; custom K12 block set; lesson guide book; Base 10 blocks set; place-value mat; items easily found in the home

**Math Plus Purple (3)**

This research-based course focuses on computational fluency, conceptual understanding, and problem solving. This engaging course features new graphics, learning tools, and games; adaptive activities that help struggling students master concepts and skills before moving on; and more support for Learning Coaches to guide their students to success. This course emphasizes conceptual understanding of the mathematical operations: addition, subtraction, multiplication, and division. Students make connections between the operations, as well as practice through problem solving, to achieve fluency. The use of problem solving and representing problem situations with equations, which include symbols for unknown values, introduces algebraic thinking. The course addresses fractions through multiple representations, as well as solving real-world problems, which gives students the ability to connect the use of fractions with problem situations in a way that makes sense and creates deeper understanding. The courses addresses geometry and measurement through introductory work on perimeter, area, and attributes of two-dimensional geometric figures, and applying measuring techniques to solving problems involving time, length, capacity, and mass. Throughout the course, problem solving connects individual mathematical skills and concepts in a useful and in-depth way. This course includes standards-based tasks, digital literacy skills, and assessment questions.

**Curriculum Items:** Activity Book; lesson guide book; custom K12 block set; Base 10 blocks set; place-value mat; items easily found in the home

**Math Plus Red (4)**

This research based course focuses on computational fluency, conceptual understanding, and problem solving. This engaging course features new graphics, learning tools, and games; adaptive activities that help struggling students master concepts and skills before moving on; and more support for Learning Coaches to guide their students to success. This course continues to emphasize the understanding of numbers and operations. There is a focus on computational fluency in addition, subtraction, multiplication, and division of whole numbers. The course enhances fluency of operations through application in the solving of measurement, geometry, and data analysis problems using mathematical problem-solving techniques. Students make connections between fraction and decimal representation of numbers. Students study equivalences and relationships between fractions and decimals on the number line and with other models. Students develop algebraic thinking as they work with variables and formulas to solve multistep word problems and as they study patterns and rules. They extend their knowledge of geometry through more in-depth classification of shapes and work with lines, angles, and rotations and the connection of geometric concepts to measurement and problem solving. This course includes standards-based tasks, digital literacy skills, and assessment questions.
**Curriculum Items:** Activity Book; lesson guide book; color tiles set; items easily found in the home

### Math Plus Yellow (5)

This research-based course focuses on computational fluency, conceptual understanding, and problem solving. This engaging course features new graphics, learning tools, and games, adaptive activities that help struggling students master concepts and skills before moving on, and more support for Learning Coaches to guide their students to success. This course builds on student understanding of numbers and operations by making connections between place value, decimals, and fractions; introducing multiplication and division of decimal numbers; and extending understanding of fraction operations. The course focuses on computational fluency in multiplication and division of whole numbers through the use of standard algorithms. The course enhances fluency of operations with whole numbers, fractions, and decimals through application in the solving of measurement, geometry, and data-analysis problems using mathematical problem-solving techniques. Students continue to develop algebraic thinking as they work with variables and formulas to solve multistep word problems, further study patterns and rules, and are introduced to representing problems graphically using the coordinate plane. They extend their knowledge of geometry through the use of the classification of shapes into hierarchies based on their attributes, the introduction of three-dimensional figures and volume, and connecting geometric concepts to measurement and problem solving. This course includes standards-based tasks, digital literacy skills, and assessment questions.

**Curriculum Items:** Activity Book; lesson guide book; protractor; items easily found in the home

### Science K

Kindergarten students begin to develop observation skills as they learn about the five senses, the Earth’s composition, and the basic needs of plants and animals. Students will also explore topics such as measurement (size, height, length, weight, capacity, and temperature), matter (solid, liquid, and gas), the seasonal cycle, our Earth (geography, taking care of Earth), motion (pushes and pulls, magnets), and astronomy (Earth, Sun, Moon, and stars; exploring space; astronauts Neil Armstrong and Sally Ride).

**Curriculum Items:** Safety glasses; basic thermometer; bar magnets (pair); magnifying glass; mirror; inflatable globe; *Animals in Winter* by Henrietta Bancroft and Richard G. Van Gelder; *My Five Senses* by Aliki; *The Big Dipper* by Franklyn Branley; *What’s Alive?* by Kathleen Weidner Zoehfeld

### Science 1

Students learn to perform experiments, record observations, and understand how scientists see the natural world. They germinate seeds to observe plant growth, and make a weather vane. Students will also explore topics such as matter (states of matter, mixtures, and solutions), weather (cloud formation, the water cycle), animal classification and adaptation (insects, amphibians, birds, and mammals), habitats (forests, deserts, rain forests), the oceans (waves and currents, coasts, coral reefs), light (how it travels, reflections, and inventor Thomas Edison), plants (germination, functions of roots, stems), and the human body.
Science 2

Students perform experiments to develop skills of observation and analysis and learn how scientists understand our world. They demonstrate how pulleys lift heavy objects, make a temporary magnet and test its strength, and analyze the parts of a flower. Students will explore topics such as the metric system (liters and kilograms), force (motion and simple machines, physicist Isaac Newton), magnetism (magnetic poles and fields, how a compass works), sound (how sounds are made, inventor Alexander Graham Bell), the human body (cells, the digestive system), and geology (layers of the earth, kinds of rocks, weathering).

Curriculum Items: Bean seeds; grass seeds; graduated cylinder; primary rock and mineral kit; thermometer; safety goggles; magnifying glass; centimeter gram cubes; primary balance; iron filings; bar magnets; latch magnet; ring magnet; horseshoe magnet; 10 Newton spring scale; pulley, unmarked thermometer; Fossils Tell of Long Ago by Aliki; Let’s Go Rock Collecting by Roma Gans; What Happens to a Hamburger? by Paul Showers; What Makes a Magnet? by Franklyn Branley; Why Frogs Are Wet by Judy Hawes

Science 3

Students learn to observe and analyze through hands-on experiments and gain further insight into how scientists understand our world. They observe and chart the phases of the moon, determine the properties of insulators and conductors, and make a three-dimensional model of a bone. Students will explore topics such as weather (air pressure, precipitation, clouds, humidity, fronts, and forecasting), vertebrates (features of fish, amphibians, reptiles, birds, and mammals), ecosystems (climate zones, tundra, forests, desert, grasslands, freshwater, and marine ecosystems), matter (phase changes, volume, mass, atoms), the human body, energy, light, and astronomy.

Curriculum Items: A Walk in the Boreal Forest: Biomes of North America Series; A Walk in the Desert: Biomes of North America Series; A Walk in the Rainforest: Biomes of North America Series; A Walk in the Tundra: Biomes of North America Series; A Walk in the Deciduous Forest: Biomes of North America Series; A Walk in the Prairie: Biomes of North America Series; Sunshine Makes the Seasons by Franklyn Branley; The Moon Seems to Change by Franklyn Branley; graduated cylinder; directional compass; safety goggles; magnifying glass; thermometer; clay (four colors)

Science 4

Students develop scientific reasoning and perform hands-on experiments in Earth, life, and physical sciences. They construct an electromagnet, identify minerals according to their properties, use chromatography to separate liquids, and assemble food webs. Students will explore topics such as the interdependence of life; plant and animal interactions; chemistry; forces and fluids; the human body; the nervous system; invertebrates; electricity and magnetism; rocks and minerals; weathering, erosion, and deposition; the fossil record and the history of life; and the Paleozoic, Mesozoic, and Cenozoic eras.
**Science 5**

Students perform experiments, develop scientific reasoning, and recognize science in the world around them. They build a model of a watershed, test how cell membranes function, track a hurricane, and analyze the effects of gravity. Students will explore topics such as water resources (aquifers, watersheds, and wetlands), the oceans (currents, waves, tides, the ocean floor), Earth’s atmosphere (weather patterns, maps, forecasts, fronts), motion and forces (pushes or pulls, position and speed, gravity), chemistry (structure of atoms, elements and compounds), cells and cell processes, taxonomy of plants and animals, and animal physiology.

**Curriculum Items:** Bar magnets (pair); safety goggles; graduated cylinder, 100 mL; lamp bulb receptacles; lamp bulbs; magnifying glass; intermediate rock and mineral kit; advanced thermometer; invertebrates; *The History of Life Through Fossils*, Lickle Publishing; clay (four colors); bare copper wire; gravel; adding machine paper; pipe cleaners; sand; white tile

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**History K**

This beginning course teaches the basics of world geography through a storybook tour of the seven continents, and provides an introduction to American history and civics through a series of biographies of famous Americans. Supplementary lessons introduce students to symbols that represent American freedom; the laws, rights, and responsibilities of citizens; the cultures and traditions of the United States; and basic economic concepts.

**Curriculum Items:** U.S./world map (K–2); inflatable globe (K–2); *Bringing the Rain to Kapiti Plain* by Verna Aardema; *Follow the Drinking Gourd* by Jeannette Winter; *Madeline* by Ludwig Bemelmans; *Possum Magic* by Mem Fox; *The Great Kapok Tree* by Lynne Cherry; *The Story of Ferdinand* by Munro Leaf and Robert Lawson; *The Story About Ping* by Marjorie Flack and Kurt Wiese; *When Clay Sings* by Byrd Baylor

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**History 1**

History 1 kicks off a program that, spanning the elementary grades, provides an overview of world geography and history from the Stone Age to the Space Age. This course takes students through the age of classical civilizations. Supplementary lessons focus on concepts in economics and citizenship.

**Curriculum Items:** U.S./world map (K–2); inflatable globe (K–2); *Mummies* by Joyce Milton; *Tut’s Mummy: Lost and Found* by Judy Donnelly; *The Trojan Horse* by Emily Little
History 2

History 2 continues a program that spans the elementary grades, exploring world geography and history from the Stone Age to the Space Age. This course focuses on the time from ancient Rome to the later Middle Ages. Supplementary lessons focus on concepts in economics and citizenship.

Curriculum Items: U.S./world map (K–2); inflatable globe (K–2); *Knights in Shining Armor* by Gail Gibbons; *Pompeii...Buried Alive* by Edith Kunhardt; *The Hundredth Name* by Shulamith Levey Oppenheim; *Saint George and the Dragon* by Margaret Hodges; *Sundiata: Lion King of Mali* by David Wisniewski

History 3

History 3 continues a program that spans the elementary grades, exploring world geography and history from the Stone Age to the Space Age. This course focuses on the period from the Renaissance through the American Revolution. Supplementary lessons focus on concepts in economics and citizenship.

Curriculum Items: *Michelangelo* by Mike Venezia; *America 1492* (“Kids Discover” Magazine); *The Revolutionary War* by Brendan January (Children’s Press, 2000); *Understanding Geography Level 3—Map Skills and Our World* (maps.com, 2006); inflatable globe (3–6); U.S./world map (3–5)

History 4

History 4 concludes a program that spans the elementary grades, exploring world geography and history from the Stone Age to the Space Age. This course focuses on the period from the Scientific Revolution to modern times. Supplementary lessons focus on concepts in economics and citizenship.

Curriculum Items: *Understanding Geography Level 4—Map Skills and Our World* (maps.com, 2006); inflatable globe (3–6); U.S./world map (3–5); *Inventors: A Library of Congress Book* by Martin Sandler; *The U.S. Constitution and You* by Syl Sobel

American History A

The first half of a detailed two-year survey of the history of the United States, this course takes students from the arrival of the first people in North America through the Civil War and Reconstruction. Lessons integrate topics in geography, civics, and economics. Building on the award-winning series *A History of US*, the course guides students through critical episodes in the story of America. Students investigate Native American civilizations; follow the path of European exploration and colonization; assess the causes and consequences of the American Revolution; examine the Constitution and the growth of the new nation; and analyze what led to the Civil War and its aftermath.

Art K
Students are introduced to the elements of art—line, shape, color, and more. They learn about portraits and landscapes, and realistic and abstract art. Students will learn about important paintings, sculpture, and architecture; study the works and lives of artists such as Matisse, Miró, Rembrandt, Hiroshige, Cézanne, Picasso, and Faith Ringgold; and create artworks similar to works they learn about, using many materials and techniques. For example, students will create brightly colored paintings inspired by Matisse and make mobiles inspired by Alexander Calder.

Curriculum Items: *Come Look with Me: Enjoying Art with Children* by Gladys S. Blizzard; *Come Look with Me: Animals in Art* by Gladys S. Blizzard; art print kit; paintbrushes; modeling clay, assorted colors; tempera paint set; oil pastels

Art 1
Following the timeline of K¹² History, Art 1 lessons include an introduction to the art and architecture of different cultures such as Mesopotamia and ancient Egypt, Greece, and China. Students will identify landscapes, still lifes, and portraits; study elements of art such as line, shape, and texture; and create art similar to the works they learn about, using many materials and techniques. For example, inspired by Vincent van Gogh’s *The Starry Night*, students paint their own starry landscape using bold brushstrokes, and make clay sculptures inspired by a bust of Queen Nefertiti and the Great Sphinx.

Curriculum Items: *Come Look with Me: Exploring Landscape Art with Children* by Gladys S. Blizzard; *Come Look with Me: World of Play* by Gladys S. Blizzard; art print kit; paintbrushes; modeling clay, assorted colors; tempera paint set; oil pastels

Art 2
Art 2 lessons include an introduction to the art and architecture of ancient Rome, medieval Europe, Islam, Mexico, Africa, China, and Japan. Students will examine elements of art and principles of design such as line, shape, pattern, and more; study and create self-portraits, landscapes, sculptures, and more; and create artworks similar to works they learn about, using many materials and techniques. For example, after studying Winslow Homer’s *Snap the Whip*, students paint their own narrative landscape, and design stained glass windows inspired by the Notre Dame Cathedral in Paris.

Curriculum Items: *How Artists See Play* by Colleen Carroll; *How Artists See Animals* by Colleen Carroll; art print kit; paintbrushes; modeling clay, assorted colors; tempera paint set; oil pastels

Art 3
Following the timeline of K¹² History, Art 3 lessons include an introduction to the art and architecture of the Renaissance throughout Europe, including Italy, Russia, and northern Europe. Students also investigate artworks from Asia, Africa, and the Americas created during the same time period. Students will extend their knowledge of elements of art and principles of design—such as form, texture, and symmetry—and draw, paint, and sculpt a variety of works, including self-portraits, landscapes, and still life paintings. For example, after studying da Vinci’s *Mona Lisa*, students will use shading in their own drawings and make prints showing the features and symmetry of the Taj Mahal.
**Curriculum Items:** *How Artists See Families* by Colleen Carroll; *How Artists See Work* by Colleen Carroll; art print kit; paintbrush, tempera, flat bristle #1; paintbrush, tempera, small #1; paintbrush, tempera, medium #4; paintbrush, tempera, large #8; modeling clay, assorted colors; tempera paint set; oil pastels

**Art 4**

Lessons include an introduction to the artists, cultures, and great works of art and architecture from the French and American revolutions through modern times. Students will study and create artworks in various media, including portraits, quilts, sculpture, collages, and more; investigate the art of the United States, Europe, Japan, Mexico, and Africa; learn about Impressionism, Cubism, Art Nouveau, and Regionalism; and create artworks inspired by works they learn about, using many materials and techniques. For example, after studying sculptures and paintings of ballerinas by Edgar Degas, students create their own clay sculptures of a figure in motion.

**Curriculum Items:** *Come Look at Me: The Artist at Work* by R. Sarah Richardson; *Come Look at Me: Exploring Modern Art* by Jessica Noelani Wright; art print kit; paintbrushes; tempera paint set; burlap

**Intermediate Art: American A**

Intermediate Art: American A includes an introduction to the artists, cultures, and great works of art and architecture of North America, from pre-Columbian times through 1877. Students will study and create various works, both realistic and abstract, including sketches, masks, architectural models, prints, and paintings; investigate the art of the American Indians, and Colonial and Federal America; and create artworks inspired by works they learn about, using many materials and techniques. For example, after studying John James Audubon’s extraordinary paintings of birds, students make bird paintings with realistic color and texture.

**Curriculum Items:** *Come Look With Me: Art in Early America* by Randy Osofsky; *Come Look With Me: Exploring American Indian Art* by Stephanie Salomon; art print kit; paintbrushes; white self-hardening clay; tempera paint set; acrylic paint set; burlap; oil pastels

**Preparatory Music**

Kindergarten students learn about music through lively activities, including listening, singing, and moving. Through games and folk songs from diverse cultures, students learn musical concepts such as high and low, or loud and soft. Creative movement activities help students enjoy the music of composers such as Grieg and Haydn. Students will sing along with folk songs, practice moving to music, and listen actively to different kinds of music. They will also understand concepts such as high and low, fast and slow, long and short, loud and soft as well as identify and contrast beat and rhythm.

**Curriculum Items:** *Let’s Sing—Vol. K* (songbook); tambourine; slide whistle
Beginning 1 Music
This course is for students in grade 1, or students in grade 2 who are new to the K12 Music program. In this course, traditional games and folk songs from many cultures help students begin to read and write simple melodic and rhythmic patterns. Students are introduced to the instruments of the orchestra through Prokofiev’s classic *Peter and the Wolf*. They explore how music tells stories in *The Sorcerer’s Apprentice* and are introduced to opera through a lively unit on Mozart’s *Magic Flute*. Students sing along with folk songs, practice moving to music, and listen actively to different kinds of music.

Curriculum Items: *Let’s Sing*—Vol. 1 (songbook); tambourine; slide whistle

Beginning 2 Music
This course is for students in grade 2 or 3 who have completed Beginning 1 Music. Through traditional folk songs and games, students learn to read more complicated melodic patterns and rhythms. As students listen to works by great composers, such as Vivaldi and Saint-Saëns, they learn to recognize these patterns in the music. Students will sing along with folk songs; read and write music; learn to recognize melody in three and four-note patterns; identify rhythms in music using half notes; become familiar with string and percussion instruments of the orchestra; recognize duple and triple meter; and begin to understand standard musical notation.

Curriculum Items: *Let’s Sing*—Vol. 2 (songbook)

Introduction to Music
Introduction to Music is for students in grade 3 or 4 who are new to K12 and just beginning their study of music. Students learn to recognize and write melodic and rhythmic patterns with four elements, and they practice recognizing these patterns in the music of great composers such as Beethoven and Brahms. Students become familiar with instruments of the orchestra as they listen to music composed by Vivaldi, Saint-Saëns, Holst, and others. Students will read and write music; learn to recognize melody in two-, three-, and four-note patterns; and identify rhythms in music using eighth, quarter, half notes, and rests.

Curriculum Items: *Let’s Sing*—Vol. 2 (songbook); tambourine; slide whistle

Intermediate 1 Music
This course is for students in grade 3 or 4 who have completed Beginning 1 and 2 Music, or students in grade 4 or 5 who have completed Introduction to Music. Through traditional folk songs, games, and the consistent use of solfège, students learn to read and write a variety of musical patterns and recognize the pentatonic scale. They learn to play simple melodies and rhythms on the recorder, and also learn fundamental concepts in breathing and singing. They become more familiar with the orchestra, especially the woodwind and brass families, and learn about the lives and works of Bach, Handel, Haydn, Mozart, and Beethoven. Students will learn to recognize melody in four- and five-note patterns; identify rhythms in music using sixteenths, dotted half notes, and whole notes; and recognize AB and ABA form.

Curriculum Items: *Let’s Sing*—Vol. 3 (songbook); recorder
Intermediate 2 Music
This course is for students in grade 4 or 5 who have completed Intermediate 1 Music. The course begins by introducing notes that are lower or higher than the familiar lines and spaces of the staff. Students expand their knowledge of rhythm and learn about the Romantic period in music. Students also study harmony and practice recognizing pentatonic patterns. Finally, they take a musical trip through Europe, Africa, the Middle East, the Caribbean, Japan, and China.

Curriculum Items: Let’s Sing—Vol. 4 (songbook)

Intermediate 3 Music
This course is for students in grade 5 who have completed Intermediate 2 Music. The course introduces students to all the notes of the major scale, from low Sol all the way up to high Do. Students also learn to recognize and sing the natural minor scale. They expand their knowledge of rhythm with simple syncopated patterns. This semester introduces the Modern period in music, with listening activities to help students recognize Modern music and identify pieces by individual composers. Near the end of the year, students explore American folk music as they follow the expansion of the country westward. Finally, they learn to recognize the major forms of classical music: three-part song form, theme and variations, rondo, sonata allegro, and fugue.

Exploring Music
This course is for students in grade 5 who are new to the K12 Music program. This course presents the basics of traditional music appreciation through singing and the study of music in history and culture. Students begin by studying some of the most important classical composers, and then study traditional music from around the country and around the world. Finally, they learn how to follow the form of a piece of music.

Curriculum Items: Let’s Sing for Fun (songbook)

Elementary Spanish 1
This course for beginners with little exposure to world languages is geared for younger minds, still especially receptive to language learning through contextual interpretation and imitation. Highly visual and amusing stories and activities are geared for these developing students, encouraging them to begin telling stories themselves. This course is not just a set of language lessons, but an appealing adventure for young minds. An integrated, game-based reward system keeps learners motivated and eager to progress.

Communication expressions include greetings, introductions, songs, *por favor* and *gracias*, and other expressions of daily courtesy, simple storytelling, and free-response questions. Vocabulary starts with numbers 1-10, animals, and shapes, and moves into days of the week, seasons, colors, fruits and vegetables, simple directions, and useful “around town” expressions. Grammar moves from simple sentence construction, first- and third-person verbs, and indefinite articles to demonstrative pronouns, simple conjunctions, simple possession, and *ser* and *estar*.
Students also begin to encounter the third-person past tense, imperative verbs, and second-person present-tense verbs. Cultural topics introduce the geography and customs of Spanish-speaking countries.

**Elementary Spanish 2**

The adventure story continues to build upon the base of vocabulary and linguistic structures introduced in Elementary Spanish 1. Interactive activities and increasingly challenging games continue to drive students toward a strong set of intermediate language skills. An integrated, game-based reward system keeps learners motivated and eager to progress. Communication expressions include social exchanges, more complex storytelling, songs, recipes, word puzzles, and interrogative words. Vocabulary includes advanced family and animal-related words and a review of numbers. Poems, stories, and songs are used throughout. Grammar moves from negative and reflexive verbs and third-person plural present verbs to noun-adjective agreement, first-person past-tense verbs, and the plural imperative. Cultural topics include cuisine, climate, geography, and history.

**Prerequisites:** Elementary Spanish 1 (or equivalent)

**Elementary French 1**

This course for beginners with little exposure to world languages is geared for younger minds, still especially receptive to language learning through contextual interpretation and imitation. Highly visual and amusing stories and activities are geared for these developing students, encouraging them to begin telling stories themselves. This course is not just a set of language lessons but an appealing adventure for young minds. An integrated, game-based reward system keeps learners motivated and eager to progress.

Communication expressions include greetings, introductions, oui and non, s’il vous plaît and merci, and other familiar phrases, songs, simple storytelling, and description activities. Vocabulary starts with animals, shapes, and colors and moves to fruits, farm-related words, body parts, family words, and numbers. Grammar topics include simple nouns, first-, second-, and third-person present-tense verbs for simple questions, basic third-person past-tense verbs, interrogative words, simple conjunctions, articles, prepositions, and introductory imperative and infinitive verb forms. Cultural topics introduce the geographies and customs of French-speaking countries.

**Elementary French 2**

The adventure story continues to build upon the base of vocabulary and linguistic structures introduced in Elementary French 1. Interactive activities and increasingly challenging games continue to drive students toward a strong set of intermediate language skills. An integrated, game-based reward system keeps learners motivated and eager to progress.

Communication expressions include a wider array of social greetings and more complex storytelling and songs. Vocabulary expands with more terms related to animals, body parts, colors, familial relationships, and numbers. Grammar moves from second- and third person plural present-tense forms, prepositional phrases, and more first- and third person present-tense forms to additional conjunctions, reflexive verbs, imperatives, and past-tense forms. Cultural topics include cuisine, climate, geography, and history.

**Prerequisites:** Elementary French 1 (or equivalent)
Elementary German 1

This course for beginners with little exposure to world languages is geared for younger minds still especially receptive to language learning through contextual interpretation and imitation. Highly visual and amusing stories and activities are geared for these developing students, encouraging them to begin telling stories themselves. This course is not just a set of language lessons, but an appealing adventure for young minds, rich with graphics, games, and engaging interactive activities. An integrated, game-based reward system keeps learners motivated and eager to progress.

Communication expressions include greetings, introductions, ja and nein, danke and bitte and other familiar phrases, songs, simple storytelling, and description activities. Vocabulary starts with animals, body parts, numbers, shapes, small objects, and colors, before moving on to food, farm-related words, useful “around town” expressions, and household terminology. Grammar starts with simple nouns, first-, second-, and third-person present-tense verbs, direct and indirect articles, the conjunction und, the pluralization of nouns, third-person plural present-tense verbs, third-person past-tense verbs, simple prepositions, and expressions conveying “there is,” “there are,” “isn’t,” and “will be.”

Cultural topics introduce the geographies and customs of German-speaking countries, with a special focus on German-speaking Switzerland.

Elementary German 2

The adventure story continues to build upon the base of vocabulary and linguistic structures introduced in Elementary German 1. Interactive activities and increasingly challenging games continue to drive students toward a strong set of intermediate language skills. An integrated, game-based reward system keeps learners motivated and eager to progress.

Communication expressions include a wider array of social greetings, introductions, simple commands, suggestions, questions, German folk songs, and enhanced storytelling. Vocabulary expands in the domains of animals, body parts, numbers, shapes, small objects, familial relationships, food, cooking, and new words useful for telling stories such as “The Three Little Pigs” and “Chicken Little” in German.

Grammar adds more third-person present-tense verbs, direct and indirect articles, and the conjunction aber; and progresses toward new third-person plural present-tense forms, third-person past-tense verbs, additional prepositions, and expressions conveying understanding. Students are also exposed to the simple future tense in the third person.

Cultural topics include cuisine, climate, geography, and history.

Prerequisites: Elementary German 1 (or equivalent)

Elementary Latin 1

Latin remains a vital tool in improving students’ fundamental understanding of English and other languages. While it’s considered, in the strictest sense, to be a “dead” language, Latin comes alive in this course through the use of gaming and multimedia techniques, creating the foundation for a deep understanding of cultural, political, and literary history. An integrated, game-based reward system keeps learners motivated and eager to progress.
Communication expressions include greetings, introductions, familiar phrases, relationships, cause and effect, likes and dislikes, and questions. Vocabulary progresses from animals, body parts, family relationships, colors, food, plants, and numbers to small objects, shapes, and household words. Grammar begins with simple sentence construction, first- and third-person verbs, demonstrative pronouns, conjunctions, and simple possession, before moving on to basic third-person past-tense and imperative forms as well as certain second-person present-tense forms.

Cultural topics introduce the history of the Latin language and daily practices along with military, political, and artistic aspects of the Roman Empire.

**Welcome to Online Learning**

Families begin the school year with a Welcome to Online Learning course. The course provides an overview of each curriculum area so students and Learning Coaches can familiarize themselves with the philosophy behind the curriculum methodology and overall course organization. The lessons are interactive and include actual animations or graphics that are used in the courses themselves. By the end of the course, students will be fully prepared to begin their K12 lessons in the online school.
Course materials will be available in various formats, which may include physical and/or digital materials.

**Intermediate English A**

This course is designed to give students the essential building blocks for expressing their own ideas in standard (or formal) English. After an opening focus on paragraph writing, students write a variety of compositions in genres they will encounter throughout their academic careers. The Grammar, Usage, and Mechanics program offers practice in sentence analysis, sentence structure, and proper punctuation. Intermediate English A sharpens reading comprehension skills, engages readers in literary analysis, and offers a variety of literature to suit diverse tastes. This course addresses current thinking in assessment standards.

**Curriculum Items:** *Myths of Ancient Greece and Rome* (an anthology from K¹²); *The Secret Garden* by Francis Hodgson Burnett; *The Adventures of Tom Sawyer* by Mark Twain; *Animal Adventures* (nonfiction collection); *Believing Our Eyes and Ears* (nonfiction collection); *Classics for Young Readers*, Vol. 6; *Twelfth Night* (Shakespeare for Young Readers adaptation); *BK English Language Handbook*, Grade 6, Perfection Learning; *Vocabulary from Classical Roots*, Book A, Educators Publishing Service

**Novels:** Students read novels of their choice from a selection of award-winning works by renowned authors, from a variety of genres: fantasy, science fiction, historical fiction, realistic fiction, and mystery. (Novels are not part of the standard materials, but are readily available at the library or for purchase in bookstores or online.)

**Intermediate English B**

This course continues the development of written and oral communication skills, designed to give students the essential building blocks for expressing their own ideas in standard (formal) English. Students continue to practice writing essays in various genres. They analyze the conventional five-paragraph essay structure, and then move on to learn the form and structure of a variety of essays they will encounter in their academic careers. The Grammar, Usage, and Mechanics program addresses many grammatical topics. Intermediate English B sharpens reading comprehension skills, engages students in literary analysis, and offers a variety of literature to suit diverse tastes. This course addresses current thinking in assessment standards.

**Curriculum Items:** *Classics for Young Readers*, Vol. 7; *BK English Language Handbook*, Grade 7, Perfection Learning; *Vocabulary from Classical Roots*, Book B, Educators Publishing Service; *The Iliad and The Odyssey: Stories from Homer’s Epics* (K¹² anthology); *The Hobbit* by J.R.R. Tolkien; *Treasure Island* by Robert Louis Stevenson; *City* by David Macaulay; *Julius Caesar* (Shakespeare for Young Readers adaptation)

**Novels:** Students read novels of their choice from a selection of award-winning works by renowned authors, from a variety of genres: fantasy, science fiction, historical fiction, realistic fiction, and mystery. (Novels are not part of the standard materials, but are readily available at the library or for purchase in bookstores or online.)
Literary Analysis and Composition

Throughout this course, students engage in literary analysis of short stories, poetry, drama, novels, and nonfiction. The course focuses on the interpretation of literary works and the development of oral and written communication skills in standard (formal) English. The course is organized in four programs: Literature; Composition; Grammar, Usage, and Mechanics; and Vocabulary. In Composition, students continue to sharpen their skills by writing essays in various genres. In Literature, students read “what’s between the lines” to interpret literature, and they go beyond the book to discover how the culture in which a work of literature was created contributes to the themes and ideas it conveys. Students also read and study a variety of nonfiction works. This course addresses current thinking in assessment standards.

Curriculum Items: Classics for Young Readers, Vol. 8; BK English Language Handbook, Level 1, Perfection Learning; Vocabulary from Classical Roots, Book C, Educators Publishing Service; Narrative of the Life of Frederick Douglass by Frederick Douglass; Anne Frank: Diary of a Young Girl by Anne Frank; Romeo and Juliet by William Shakespeare (Signet Classic)

Novels: Students choose four out of seven offered titles, including Jane Eyre by Charlotte Brontë, Great Expectations by Charles Dickens, Animal Farm by George Orwell, and To Kill a Mockingbird by Harper Lee.

Drama: Romeo and Juliet by William Shakespeare

Short stories by Langston Hughes, Shirley Jackson, Jack London, Guy de Maupassant, Edgar Allan Poe, James Thurber, and more


Autobiography: Selections by Mark Twain, Ernesto Galarza, and Maya Angelou; Narrative of the Life of Frederick Douglass, An American Slave by Frederick Douglass or Anne Frank: Diary of a Young Girl by Anne Frank

Intermediate Mathematics A

Intermediate Mathematics A is the first of a three-year middle school math sequence. This research-based course focuses on computational fluency, conceptual understanding, and problem solving and expands more deeply into concepts of geometry, algebra, and statistics. This engaging course features new graphics and learning tools. Students solve expressions and equations in the context of perimeter, area, and volume problems while further developing computational skills with fractions and decimals. Also in the context of problem solving, students add, subtract, multiply, and divide positive and negative numbers and work with problems addressing net gains and losses. Students solve problems involving ratios, proportions, and percents with an emphasis on both unit rates and constant rates as well as problems involving direct variation. They learn multiple representations for communicating information such as graphs on the coordinate plane, measures
of center with statistical data, and a variety of data displays. This course also includes standards-based tasks, digital literacy skills, and multiple question types for assessments.

**Curriculum Items:** *Fundamentals of Geometry and Algebra*

**Math 6: Fundamentals of Geometry and Algebra**

Students enhance computational and problem-solving skills while learning topics in algebra, geometry, probability, and statistics. They solve expressions and equations in the context of perimeter, area, and volume problems while further developing computational skills with fractions and decimals. The study of plane and solid figures includes construction and transformations of figures. Also in the context of problem solving, students add, subtract, multiply, and divide positive and negative integers and solve problems involving ratios, proportions, and percentages, including simple and compound interest, rates, discount, tax, and tip problems. They learn multiple representations for communicating information, such as graphs on the coordinate plane, statistical data and displays as well as the results of probability and sampling experiments. They investigate patterns involving addition, multiplication, and exponents, and apply number theory and computation to mathematical puzzles.

**Curriculum Items:** *Fundamentals of Geometry and Algebra*

**Intermediate Mathematics B**

Intermediate Mathematics B is the second of a three-year middle school math sequence that prepares students for success in high school algebra. The course begins by developing an understanding of operations with rational numbers, which is applied to working with algebraic expressions and linear equations. This course also helps students develop understanding of proportional relationships and the use of these relationships to solve problems. Geometry topics focus on constructions of two-dimensional figures; properties of circles; scale factors; and problems involving area, surface area, and volume. Finally, students use the tools of probability and statistics to solve basic probability problems and to make inferences based on population samples. This course aligns to national standards and is designed to focus on critical skills and knowledge needed for success in further mathematical studies, including high school algebra.

**Curriculum Items:** *Intermediate Mathematics B: A Reference Guide and Problem Sets*

**Prerequisites:** Math 6: Fundamentals of Geometry and Algebra (or equivalent)

**Math 7: Pre-Algebra**

In this course, students take a broader look at computational and problem-solving skills while learning the language of algebra. Students translate word phrases and sentences into mathematical expressions; analyze geometric figures; solve problems involving percentages, ratios, and proportions; graph different kinds of equations and inequalities; calculate statistical measures and probabilities; apply the Pythagorean theorem; and explain strategies for solving real-world problems.

**Curriculum Items:** *Pre-Algebra: A Reference Guide and Problem Sets*

**Prerequisites:** Math 6: Fundamentals of Geometry and Algebra (or equivalent)
Intermediate Mathematics C

Intermediate Mathematics C is the third of a three-year middle school math sequence that prepares students for success in high school algebra. The course begins with properties of numbers, including exponents, as well as measurement and precision with scientific notation. After using transformations to solve linear equations with one variable, the course presents linear equations and systems with two variables. The course emphasizes modeling with linear relationships, including the use of linear functions to model relationships between bivariate statistical data. Geometry topics include distances, angles, similarity, and congruence with two-dimensional figures and volumes of three-dimensional figures. Finally, students use irrational numbers and the Pythagorean theorem to solve mathematical and real-world problems. This course aligns to national standards and is designed to focus on critical skills and knowledge needed for success in further mathematical studies, including high school algebra. After completing this course, students will be ready to take Algebra I or Integrated Math I in high school.


Prerequisites: K12 Intermediate Mathematics B (or equivalent)

Math 8: Algebra

Students develop algebraic fluency by learning the skills needed to solve equations and perform manipulations with numbers, variables, equations, and inequalities. They also learn concepts central to the abstraction and generalization that algebra makes possible. Students learn to use number properties to simplify expressions or justify statements; describe sets with set notation and find the union and intersection of sets; simplify and evaluate expressions involving variables, fractions, exponents, and radicals; work with integers, rational numbers, and irrational numbers; and graph and solve equations, inequalities, and systems of equations. They learn to determine whether a relation is a function and how to describe its domain and range; use factoring, formulas, and other techniques to solve quadratic and other polynomial equations; formulate and evaluate valid mathematical arguments using various types of reasoning; and translate word problems into mathematical equations and then use the equations to solve the original problems.

Curriculum Items: Algebra I: Reference Guide and Problem Sets

Prerequisites: Math 7: Pre-Algebra (or equivalent)

Earth Science

The Earth Science curriculum builds on the natural curiosity of students. By connecting them to the beauty of geological history, the amazing landforms around the globe, the nature of the sea and air, and the newest discoveries about our universe, the curriculum gives students an opportunity to relate to their everyday world. Students will explore topics such as the fundamentals of geology, oceanography, meteorology, and astronomy; Earth’s minerals and rocks; Earth’s interior; plate tectonics, earthquakes, volcanoes, and the movements of continents; geology and the fossil record; the oceans and the atmosphere; and the solar system and the universe.
Curriculum Items: Wall map set (science/history); graduated cylinder; pipe cleaners; advanced rock and mineral kit; diffraction grating film; latch magnet; safety glasses; magnifying glass; centimeter gram cubes; clay (four colors); fine sand; white tile; thermometer

Advanced Earth Science

Advanced Earth Science is a rigorous middle school course. It was conceived for the student who loves geology or meteorology and is ready for an extra challenge. Students tackle such topics as rocks and minerals, plate tectonics and the drifting of continents, volcanoes, earthquakes, oceanography, weather, and astronomy. Practical, hands-on lesson activities help students discover how scientists investigate the living world. Students perform laboratory activities and a full-unit investigation to learn about the application of scientific methods.

Curriculum Items: Wall map set (science/history); graduated cylinder; pipe cleaners; advanced rock and mineral kit; diffraction grating film; latch magnet; safety glasses; magnifying glass; clay (four colors); fine sand; white tile; thermometer

Life Science

The K¹² Life Science program invites students to investigate the world of living things—at levels both large and small—by reading, observing, and experimenting with aspects of life on Earth. Students explore an amazing variety of organisms, the complex workings of the cell, the relationship between living things and their environments, and discoveries in the world of modern genetics. Practical, hands-on lesson activities help students discover how scientists investigate the living world. Students perform laboratory activities and a full-unit investigation to learn about the application of scientific methods.

Curriculum Items: Graduated cylinder; compound microscope; radish seeds; microscope slides (set of 12); slide cover slips (set of 12); transparencies (set of 12); petri dishes; agar vials; rhizobium bacteria; green bean bush seeds; safety glasses; magnifying glass; thermometer

Advanced Life Science

Advanced Life Science is a rigorous middle school course, conceived for the student who loves biology and is ready for an extra challenge. Students tackle such topics as ecology, microorganisms, animals, plants, cells, and genetics. They are also introduced to gene expression and other aspects of cell biology. Practical, hands-on lesson activities help students discover how scientists investigate the living world. Students perform laboratory activities and a full-unit investigation to learn about the application of scientific methods.

Curriculum Items: Graduated cylinder; compound microscope; radish seeds; microscope slides (set of 12); slide cover slips (set of 12); transparencies (set of 12); petri dishes; agar vials; rhizobium bacteria; green bean bush seeds; safety glasses; magnifying glass; thermometer
Physical Science
The K¹² Physical Science program introduces students to many aspects of the physical world, focusing first on chemistry and then on physics. The course provides an overview of the physical world and gives students tools and concepts to think clearly about atoms, molecules, chemical reactions, motion, electricity, light, and other aspects of chemistry and physics. Among other subjects, students study the structure of atoms; the elements and the Periodic Table; chemical reactions; forces, including gravitational, motion, acceleration, and mass; and energy, including light, thermal, electricity, and magnetism.

Curriculum Items: Graduated cylinder; stopwatch; 10 Newton spring scale; digital scale; double pulley; metallic rod; metallic spring; muriatic acid; phenolphthalein; protective gloves (two pair); D-cell battery holder; cork stoppers; enamel-coated, heavy-gauge copper wire; non-insulated copper wire; insulated copper wire strips (set of five)

Advanced Physical Science
Advanced Physical Science is a rigorous middle school course conceived for the enthusiastic science student who is ready for an extra challenge. Students learn about the physical world and tackle topics such as matter, energy, atoms, motion, thermodynamics, and other aspects of chemistry and physics. Practical, hands-on lesson activities help students discover how scientists investigate the living world. Students perform laboratory activities and a full-unit investigation to learn about the application of scientific methods.

Curriculum Items: Graduated cylinder; stopwatch; 10 Newton spring scale; digital scale; double pulley; metallic rod; metallic spring; muriatic acid; phenolphthalein; protective gloves (two pair); D-cell battery holder; cork stoppers; enamel-coated, heavy gauge copper wire; non-insulated copper wire; insulated copper wire strips (set of five); directional compass; bar magnet (set of two); safety glasses; lamp bulbs (set of four); lamp bulb receptacle (set of two); thermometer

American History B
The second half of a detailed two-year survey of the history of the United States, this course takes students from the westward movement of the late 1800s to the present. Lessons integrate topics in geography, civics, and economics. Building on the award-winning series A History of US, the course guides students through critical episodes in the story of America. Students examine the impact of the settlement of the American West; investigate the social, political, and economic changes that resulted from industrialization; explore the changing role of the U.S. in international affairs from the late nineteenth century through the end of the Cold War; and trace major events and trends in the United States from the Cold War through the first decade of the twenty-first century.

Intermediate World History A: From Prehistory through the Middle Ages

In this first part of a survey of world history from prehistoric to modern times, K¹² online lessons and assessments complement The Human Odyssey, a textbook series developed and published by K¹². This course focuses on the development of civilization across a 12,000-year span: from the Ice Age to the Middle Ages, from cave paintings to stained glass windows, from crude huts to Gothic cathedrals. The course introduces geography concepts and skills as they appear in the context of the historical narrative.

Curriculum Item: The Human Odyssey, Volume 1: Prehistory Through the Middle Ages

Intermediate World History B: Our Modern World, 1400 to 1914

Continuing a survey of world history from prehistoric to modern times, K¹² online lessons and assessments complement the second volume of The Human Odyssey, a textbook series developed and published by K¹². This course focuses on the story of the past, from the fifteenth century to 1914 and the beginning of World War I. The course is organized chronologically and, within broad eras, regionally. Lessons explore developments in religion, philosophy, the arts, and science and technology. The course introduces geography concepts and skills as they appear in the context of the historical narrative.

Curriculum Item: The Human Odyssey, Volume 2: Our Modern World, 1400 to 1914

Intermediate Art: American B

Intermediate Art: American B is designed to complement K¹² American History B. Following the same historical timeline, lessons include an introduction to the artists, cultures, and great works of American art and architecture from the end of the Civil War through modern times. Students will investigate paintings done in various styles, from Impressionist to Pop; learn about modern sculpture and folk art; discover how photographers and painters have inspired one another; examine examples of modern architecture, from skyscrapers to art museums; and create artworks inspired by works they learn about.

Curriculum Items: Art print kit; paintbrushes; plastilina clay (10 colors); acrylic paint set; oil pastels

Intermediate Art: World A

Intermediate Art: World A is designed to complement Intermediate World History A: From Prehistory Through the Middle Ages. Following the same historical timeline, lessons include an introduction to the artists, cultures, and great works of world art and architecture from ancient through medieval times. Students will investigate how artists from different civilizations used various techniques, from painting to mosaic; examine elements of design and styles of decoration, from the spiral to the solar disk; and explore some of the best-preserved works from ancient tombs, including the treasures of Egypt’s King Tut.

Curriculum Items: Art print kit; paintbrushes; white self-hardening clay; acrylic paint set
**Intermediate Art: World B**

K¹² Intermediate Art: World B is designed to complement World History: Our Modern World, 1400 to 1917. Following the same historical timeline, lessons include an introduction to the artists, cultures, and great works of world art and architecture from the Renaissance through modern times. Students will study various works of art from the Renaissance and beyond; discover great works of art and see how they influenced later artists; compare and contrast works from many civilizations, from paintings to sculpture, architecture, book covers, prints, and more; and create artworks inspired by works they learn about.

**Curriculum Item:** Art print kit

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**Music Concepts A**

This course is for students in grade 6, or students in grade 7 who are new to the K¹² Music program. Students learn the fundamentals of music, as they relate to the piano key, and study a select group of composers and their music. The course covers the staff and the keyboard; extending the staff; and flats, sharps, and scales.

**Music Concepts B**

This course is for students in grade 7 who have already completed Music Concepts A. Students learn the fundamentals of music, as they relate to the piano key, and study a select group of composers and their music. The course covers the elements of rhythm and melody; rhythms, rests, and keys; and minor scales, syncopation, and harmony.

**Music Appreciation**

This course is for students in grade 8. *Music Appreciation* covers the fundamentals of music (such as rhythm, beat, melody, harmony, form, and expression), and a survey of music history beginning with the early music of the Greeks and the Middle Ages. The course concludes with Modern music by composers such as Copland and Prokofiev. Topics include the elements of music; music and emotion; musical style; musical instruments of the world; and music through history.
Middle School Spanish 1
This fun, interactive course for middle school students is filled with diverse, multimedia language activities. The instruction is equivalent to that found in the first semester of High School Spanish I. Students begin their introduction to Spanish by focusing on the four key areas of world language study: listening, speaking, reading, and writing. The course represents an ideal blend of language learning pedagogy and online learning. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit. Students should expect to be actively engaged in their own language learning, become familiar with common vocabulary terms and phrases, comprehend a wide range of grammar patterns, participate in simple conversations and respond appropriately to basic conversational prompts, analyze and compare cultural practices, products, and perspectives of various Spanish-speaking countries, and take frequent assessments where their language progression can be monitored. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

Prerequisites: None

Middle School Spanish 2
Students continue their language-learning adventure by progressing to this next level of middle school Spanish. The instruction is equivalent to that found in the second semester of High School Spanish I. Students expand their introduction to Spanish through focus on four key areas of world language study: listening, speaking, reading, and writing. The course represents an ideal blend of language learning pedagogy and online learning. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit. Students should expect to be actively engaged in their own language learning, become familiar with common vocabulary terms and phrases, comprehend a wide range of grammar patterns, participate in simple conversations and respond appropriately to basic conversational prompts, analyze and compare cultural practices, products, and perspectives of various Spanish-speaking countries, and take frequent assessments where their language progression can be monitored. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

Prerequisites: K12 Middle School Spanish 1 (or equivalent)

Middle School French 1
This fun, interactive course for middle school students is filled with diverse, multimedia language activities. The instruction is equivalent to that found in the first semester of High School French I. Students begin their introduction to French by focusing on the four key areas of world language study: listening, speaking, reading, and writing. The course represents an ideal blend of language learning pedagogy and online learning. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit. Students should expect to be actively engaged in their own language learning, become familiar with common vocabulary terms and phrases, comprehend a wide range of grammar patterns, participate in simple conversations and respond appropriately to basic conversational prompts, analyze and compare cultural practices, products, and perspectives of various French-speaking countries, and take frequent assessments where their language progression can be monitored. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).
Middle School French 2

Students continue their language-learning adventure by progressing to this next level of middle school French. The instruction is equivalent to that found in the second semester of High School French I. Students expand their introduction to French through focus on four key areas of world language study: listening, speaking, reading, and writing. The course represents an ideal blend of language learning pedagogy and online learning. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit. Students should expect to be actively engaged in their own language learning, become familiar with common vocabulary terms and phrases, comprehend a wide range of grammar patterns, participate in simple conversations and respond appropriately to basic conversational prompts, analyze and compare cultural practices, products, and perspectives of various French-speaking countries, and take frequent assessments where their language progression can be monitored. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

Prerequisites: K12 Middle School French 1 (or equivalent)

Middle School German 1

This fun, interactive course for middle school students is filled with diverse, multimedia language activities. The instruction is equivalent to that found in the first semester of High School German I. Students begin their introduction to German by focusing on the four key areas of world language study: listening, speaking, reading, and writing. The course represents an ideal blend of language learning pedagogy and online learning. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit. Students should expect
to be actively engaged in their own language learning, become familiar with common vocabulary terms and phrases, comprehend a wide range of grammar patterns, participate in simple conversations and respond appropriately to basic conversational prompts, analyze and compare cultural practices, products, and perspectives of various German-speaking countries, and take frequent assessments where their language progression can be monitored. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

*Also suitable for students of other ages, depending upon background and experience

Prerequisites: None

**Middle School German 2**

Students continue their language-learning adventure by progressing to this next level of middle school German. The instruction is equivalent to that found in the second semester of High School German I. Students expand their introduction to German through focus on four key areas of world language study: listening, speaking, reading, and writing. The course represents an ideal blend of language learning pedagogy and online learning. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit. Students should expect to be actively engaged in their own language learning, become familiar with common vocabulary terms and phrases, comprehend a wide range of grammar patterns, participate in simple conversations and respond appropriately to basic conversational prompts, analyze and compare cultural practices, products, and perspectives of various German-speaking countries, and take frequent assessments where their language progression can be monitored. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

Prerequisites: K12 Middle School German 1 (or equivalent)

**Middle School Latin 1**

This fun, interactive course for middle school students is filled with diverse, multimedia language activities. The instruction is equivalent to that found in the first semester of High School Latin I. Since mastering a classical language presents different challenges from learning a spoken world language, students learn Latin through ancient, time-honored, classical language approaches which include repetition, parsing, written composition, and listening exercises. These techniques, combined with a modern multimedia approach to learning grammar, syntax, and vocabulary, provide students with a strong foundation for learning Latin. Each unit consists of a new vocabulary theme and grammar concept, reading comprehension activities, writing activities, multimedia culture, history, and mythology presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on engaging with authentic classical Latin through weekly encounters with ancient passages from such prestigious authors as Virgil, Ovid, and Lucretius. The curriculum concurs with the Cambridge school of Latin; therefore, students will learn ancient high classical styles of pronunciation and grammar in lieu of generally less sophisticated
medieval styles, making it possible for students to comprehend the most Latin from
the widest range of time periods. Students should expect to be actively engaged in
their own language learning, become familiar with common vocabulary terms and
phrases, comprehend a wide range of grammar patterns, understand and analyze the
cultural and historical contexts of the ancient sources they study, and take frequent
assessments where their language progression can be monitored. The course has been
carefully aligned to national standards as set forth by ACTFL (the American Council on
the Teaching of Foreign Languages).

*Also suitable for students of other ages, depending upon background and experience

**Prerequisites:** None

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**Middle School Latin 2**

Students continue their language-learning adventure by progressing to this next
level of middle school Latin. The instruction is equivalent to that found in the second
semester of High School Latin I. Since mastering a classical language presents different
challenges from learning a spoken world language, students learn Latin through ancient,
time-honored, classical language approaches which include repetition, parsing, written
composition, and listening exercises. These techniques, combined with a modern
multimedia approach to learning grammar, syntax, and vocabulary, provide students
with a strong foundation for learning Latin. Each unit consists of a new vocabulary theme
and grammar concept, reading comprehension activities, writing activities, multimedia
culture, history, and mythology presentations, and interactive activities and practices
which reinforce vocabulary and grammar. There is a strong emphasis on engaging
with authentic classical Latin through weekly encounters with ancient passages from
such prestigious authors as Virgil, Ovid, and Lucretius. The curriculum concurs with the
Cambridge school of Latin; therefore, students will learn ancient high classical styles
of pronunciation and grammar in lieu of generally less sophisticated medieval styles,
making it possible for students to comprehend the most Latin from the widest range
of time periods. Students should expect to be actively engaged in their own language
learning, become familiar with common vocabulary terms and phrases, comprehend
a wide range of grammar patterns, understand and analyze the cultural and historical
contexts of the ancient sources they study, and take frequent assessments where
their language progression can be monitored. The course has been carefully aligned
to national standards as set forth by ACTFL (the American Council on the Teaching of
Foreign Languages).

*Also suitable for students of other ages, depending upon background and experience.

**Prerequisites:** K12 Middle School Latin 1 (or equivalent)

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**Middle School Chinese 1**

This fun, interactive course for middle school students is filled with diverse, multimedia
language activities. The instruction is equivalent to that found in the first semester of
High School Chinese I. Students begin their introduction to Chinese by focusing on the
four key areas of world language study: listening, speaking, reading, and writing. The
course represents an ideal blend of language learning pedagogy and online learning.
Each unit consists of a new vocabulary theme and grammar concept, reading and
listening comprehension activities, speaking and writing activities, multimedia cultural
presentations, and interactive activities and practices which reinforce vocabulary and
grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit. Both Chinese characters and pinyin are presented together throughout the course and specific character practices are introduced after the first quarter. Students should expect to be actively engaged in their own language learning, become familiar with common vocabulary terms and phrases, comprehend a wide range of grammar patterns, participate in simple conversations and respond appropriately to basic conversational prompts, analyze and compare cultural practices, products, and perspectives of various Chinese-speaking countries, and take frequent assessments where their language progression can be monitored. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

*Also suitable for children of other ages, depending upon background and experience.

**Prerequisites:** None

### Middle School Chinese 2

The instruction is equivalent to that found in the second semester of High School Chinese I. Students begin their introduction to Chinese by focusing on the four key areas of world language study: listening, speaking, reading, and writing. The course represents an ideal blend of language learning pedagogy and online learning. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit. Both Chinese characters and pinyin are presented together throughout the course and specific character practices are introduced after the first quarter. Students should expect to be actively engaged in their own language learning, become familiar with common vocabulary terms and phrases, comprehend a wide range of grammar patterns, participate in simple conversations and respond appropriately to basic conversational prompts, analyze and compare cultural practices, products, and perspectives of various Chinese-speaking countries, and take frequent assessments where their language progression can be monitored. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

**Prerequisites:** K12 Middle School Chinese 1 (or equivalent)

### Welcome to Online Learning

Families begin the school year with a Welcome to Online Learning course. The course provides an overview of each curriculum area so students and Learning Coaches can familiarize themselves with the philosophy behind the curriculum methodology and overall course organization. The lessons are interactive and include actual animations or graphics that are used in the courses themselves. By the end of the course, students will be fully prepared to begin their K12 lessons in the online school.
K–8 Course List
Complete list available through K^12. Course offerings may vary at K^12-powered schools.
### K–8 COURSE LIST

Complete list available through K¹². Course offerings may vary at K¹²-powered schools.

#### English/Language Arts
- Language Arts Blue (K)
- Language Arts Green (1)
- Language Arts Orange (2)
- Language Arts Purple (3)
- Language Arts 4
- Language Arts 5
- Intermediate English A
- Intermediate English B
- Literary Analysis and Composition
- MARK¹² Reading I (Remediation)
- MARK¹² Reading II (Remediation)
- MARK¹² Reading III (Remediation)

#### Math
- Math Plus Blue (K)
- Math Plus Green (1)
- Math Plus Orange (2)
- Math Plus Purple (3)
- Math Plus Red (4)
- Math Plus Yellow (5)
- Intermediate Mathematics A
- Math 6: Fundamentals of Geometry & Algebra
- Intermediate Mathematics B
- Math 7: Pre-Algebra
- Intermediate Mathematics C
- Math 8: Algebra

#### History/Social Sciences
- History K
- History 1
- History 2
- History 3
- History 4
- American History A
- American History B
- Intermediate World History A
- Intermediate World History B

#### World Languages
- Elementary Spanish 1
- Elementary Spanish 2
- Elementary French 1
- Elementary French 2
- Elementary German 1
- Elementary German 2
- Elementary Latin 1
- Middle School Spanish 1
- Middle School Spanish 2
- Middle School French 1
- Middle School French 2
- Middle School German 1
- Middle School German 2
- Middle School Latin 1
- Middle School Latin 2
- Middle School Chinese 1
- Middle School Chinese 2

#### Art
- Art K
- Art 1
- Art 2
- Art 3
- Art 4
- Intermediate Art: American A
- Intermediate Art: American B
- Intermediate Art: World A
- Intermediate Art: World B

#### Music
- Preparatory Music
- Beginning 1 Music
- Beginning 2 Music
- Introduction to Music
- Intermediate 1 Music
- Intermediate 2 Music
- Intermediate 3 Music
- Exploring Music
- Music Concepts A
- Music Concepts B
- Music Appreciation

#### Science
- Science K
- Science 1
- Science 2
- Science 3
- Science 4
- Science 5
- Earth Science
- Life Science
- Physical Science
- Advanced Earth Science
- Advanced Life Science
- Advanced Physical Science

#### Orientation
- Welcome to Online Learning Grades K–2
- Welcome to Online Learning Grades 3–5
- Welcome to Online Learning Grades 6–8

= adaptive learning technology

Course materials will be available in various formats, which may include physical and/or digital materials.
In **K12 Core courses**, topics are broken into discrete modules that are taught in tandem with the framework students need to develop strong study skills. Rich, engaging content with interactive demonstrations and activities help students absorb and retain information.

In **K12 Comprehensive courses**, students do more extensive writing and research projects, and tackle problems that require more analytical thinking. Course projects and activities also demand more independent thinking and self-discipline than projects in Core courses.

**K12 Honors courses** hold students to a greater degree of accountability, and demand even greater independence and self-discipline. Students synthesize and evaluate information and concepts from multiple sources and read texts typically assigned in college-level courses. Students also demonstrate college-level writing in essays that require analysis of primary and secondary sources, responsible use of evidence, and comprehensive citation of sources.

**K12 AP® courses** are college-level courses that follow curriculum specified by the College Board. These courses are designed to prepare students for success on AP Exams, providing students the opportunity to earn credit at most of the nation's colleges and universities. Our AP courses include a companion AP Exam Review course that provides practice for multiple choice exams and essay writing as well as provides students an individualized study plan based on their results.

**ENG001: English Foundations I (Remediation)**

Students build and reinforce foundational reading, writing, and basic academic skills needed for success in high school. Through carefully paced, guided instruction, and graduated reading levels, students improve reading comprehension and strategies, focusing on literacy development at the critical stage between decoding and making meaning from text. Instruction and practice in writing skills help students develop their composition skills in a variety of formats. If needed, students can continue their remediation of reading and writing skills with English Foundations II.

**Course Length:** Two semesters  
**Materials:** None  
**Prerequisites:** Teacher/school counselor recommendation

**ENG011: English Foundations II (Remediation)**

Students build and reinforce foundational reading, writing, and basic academic skills needed for success in high school. Struggling readers develop mastery in reading comprehension, vocabulary building, study skills, and media literacy. Students build confidence in writing fundamentals by focusing on composition in a variety of formats, grammar, style, and media literacy.

**Course Length:** Two semesters  
**Materials:** None  
**Prerequisites:** Teacher/school counselor recommendation; ENG001: English Foundations I is not required

**ENG102: Literary Analysis and Composition I (Core)**

In this course, students work on their written and oral communication skills, while strengthening their ability to understand and analyze works of literature, both classic and modern.
Literature: Students read short stories, poetry, drama, novels, essays, and informative articles. The course sharpens reading comprehension skills and engages readers in literary analysis as they consider important human issues and challenging ideas. Students also learn to read for information in nonfiction texts.

Language Skills: Students learn to express their ideas effectively. They sharpen their composition skills through focus on writing good paragraphs and essays in a variety of genres such as persuasive and research essays. Students plan, organize, and revise written works in response to feedback on drafts. In grammar, usage, and mechanics lessons, students expand their understanding of parts of speech, phrases and clauses, sentence analysis and structure, agreement, punctuation, and other conventions. Vocabulary lessons build knowledge of Greek and Latin words that form the roots of many English words. Students use word origins and derivations to determine the meaning of new words as they increase their vocabularies.

Course Length: Two semesters
Materials: Explorations: An Anthology of Literature, Volume A; English Language Handbook; Vocabulary from Classical Roots, Book B; Julius Caesar for Young People
Prerequisites: Middle school English/language arts

Note: This course is only for students who are new to the K12 curriculum. Students who have taken K12 Intermediate English A or B, or K12 Middle School Literary Analysis and Composition courses, should not enroll in this course.

ENG103: Literary Analysis and Composition I (Comprehensive)

This course challenges students to improve their written and oral communication skills, while strengthening their ability to understand and analyze literature in a variety of genres.

Literature: Students read a broad array of short stories, poetry, drama, novels, autobiographies, essays, and famous speeches. The course guides students in the close reading and critical analysis of classic works of literature, and helps them appreciate the texts and the contexts in which the works were written. Literary selections range from classic works such as Shakespeare’s Romeo and Juliet to contemporary pieces by authors such as Maya Angelou.

Language Skills: Students broaden their composition skills by examining model essays in various genres by student and published writers. Through in-depth planning, organizing, drafting, revising, proofreading, and feedback, they hone their writing skills. Students build on their grammar, usage, and mechanics skills with in-depth study of sentence analysis and structure, agreement, and punctuation, reinforced by online activities (Skills Updates). Student vocabularies are enhanced through the study of Greek and Latin root words, improving students’ ability to decipher the meanings of new words.

Course Length: Two semesters
Materials: Classics for Young Readers, Volume 8; BK English Language Handbook, Level 1; Vocabulary from Classical Roots, Book C; The Narrative of the Life of Frederick Douglass, An American Slave by Frederick Douglass; Anne Frank: Diary of a Young Girl by Anne Frank; Romeo and Juliet by William Shakespeare
Prerequisites: K12 Intermediate English A and B (or equivalent)

Note: Students who have already succeeded in K12 Middle School Literary Analysis and Composition should not enroll in this course.
ENG104: Honors Literary Analysis and Composition I

This course challenges students to improve their written and oral communication skills, while strengthening their ability to understand and analyze literature in a variety of genres. Students enrolled in this course work on independent projects that enhance their skills and challenge them to consider complex ideas and apply the knowledge they have learned.

**Literature:** Students read a broad array of short stories, poetry, drama, novels, autobiographies, essays, and famous speeches. The course guides students in the close reading and critical analysis of classic works of literature, and helps them appreciate the texts and the contexts in which the works were written. Literary selections range from the Greek tragedy *Antigone* to Shakespeare’s *Romeo and Juliet* to contemporary pieces by authors such as Annie Dillard and Maya Angelou.

**Language Skills:** Students broaden their composition skills by examining model essays in various genres by student and published writers. Through in-depth planning, organizing, drafting, revising, proofreading, and feedback, they hone their writing skills. Students build on their grammar, usage, and mechanics skills with in-depth study of sentence analysis and structure, agreement, and punctuation, reinforced by online activities. Student vocabularies are enhanced through the study of Greek and Latin root words, improving students’ ability to decipher the meanings of new words.

**Course Length:** Two semesters

**Materials:** *Classics for Young Readers, Volume 8; BK English Language Handbook, Level 1; Vocabulary from Classical Roots, Book C; The Narrative of the Life of Frederick Douglass, An American Slave* by Frederick Douglass; *Anne Frank: Diary of a Young Girl* by Anne Frank; *Romeo and Juliet* by William Shakespeare

**Prerequisites:** K12 Intermediate English A and B (or equivalent) and teacher/school counselor recommendation

*Note: Students who have already succeeded in K12 Middle School Literary Analysis and Composition should not enroll in this course.*

ENG106: Literary Analysis and Composition I (Credit Recovery)

In the course, students read a variety of literary works to sharpen reading comprehension and literary analysis skills. They review composition skills and expand their understanding of parts of speech, phrases and clauses, sentence analysis and structure, agreement, punctuation, and other conventions. Vocabulary lessons build knowledge of Greek and Latin words that form the roots of many English words. Diagnostic tests assess students’ current knowledge and generate individualized study plans, so students can focus on topics that need review.

**Course Length:** Two semesters

**Materials:** *Explorations: An Anthology of Literature, Volume A; English Language Handbook; Vocabulary from Classical Roots, Book B; Julius Caesar for Young People*

**Prerequisites:** Student previously took the course or its equivalent but did not receive credit; and teacher/school counselor recommendation
**ENG202: Literary Analysis and Composition II (Core)**

In this course, students build on their language skills while reading classic and modern works of literature and improving their writing skills.

**Literature:** Students read short stories, poetry, drama, and novels, sharpening their reading comprehension skills and analyzing important human issues.

**Language Skills:** Students continue to work on their oral and written expression skills, writing a variety of essays, including persuasive and research essays. Students plan, organize, and revise their essays in response to feedback. They build on their skills in grammar, usage, and mechanics by studying parts of speech, phrases and clauses, sentence analysis and structure, agreement, punctuation, and other conventions. Thematic units focus on word roots, suffixes and prefixes, context clues, and other strategies to help students strengthen their vocabularies.

**Course Length:** Two semesters

**Materials:** Explorations: An Anthology of Literature, Volume B; The Miracle Worker by William Gibson

**Prerequisites:** ENG102: Literary Analysis and Composition I (or equivalent)

*Note: Students who have taken K12 Intermediate English A or B or K12 Middle School Literary Analysis and Composition courses should not enroll in this course.*

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**ENG203: Literary Analysis and Composition II (Comprehensive)**

In this course, students build on existing literature and composition skills and move to higher levels of sophistication.

**Literature:** Students hone their skills of literary analysis by reading short stories, poetry, drama, novels, and works of nonfiction, both classic and modern. Authors include W. B. Yeats, Sara Teasdale, Langston Hughes, Robert Frost, Edgar Allan Poe, Nathaniel Hawthorne, Kate Chopin, Amy Tan, and Richard Rodriguez. Students read Shakespeare’s *Macbeth*. They are offered a choice of novels and longer works to study, including works by Jane Austen, Charles Dickens, Elie Wiesel, and many others.

**Language Skills:** In this course, students become more proficient writers and readers. In composition lessons, students analyze model essays from readers’ and writers’ perspectives, focusing on ideas and content, structure and organization, style, word choice, and tone. Students receive feedback during the writing process to help them work toward a polished final draft. In addition to writing formal essays, resumes, and business letters, students write and deliver a persuasive speech. Students expand their knowledge of grammar, usage, and mechanics through sentence analysis and structure, syntax, agreement, and conventions. Unit pretests identify skills to address more fully. Students strengthen their vocabularies through thematic units focused on word roots, suffixes and prefixes, context clues, and other important vocabulary-building strategies.

**Course Length:** Two semesters

**Materials:** Journeys in Literature: Classic and Modern, Volume B; Vocabulary for Achievement, Fourth Course; *Macbeth* by William Shakespeare

**Prerequisites:** ENG103: Literary Analysis and Composition I (or equivalent)
ENG204: Honors Literary Analysis and Composition II

In this course, students build on existing literature and composition skills and move on to higher levels of sophistication. Students work on independent projects that enhance their skills and challenge them to consider complex ideas and apply the knowledge they have learned.

Literature: Students hone their skills of literary analysis by reading short stories, poetry, drama, novels, and works of nonfiction, both classic and modern. Authors include W.B. Yeats, Sara Teasdale, Langston Hughes, Robert Frost, Edgar Allan Poe, Nathaniel Hawthorne, Kate Chopin, Amy Tan, Richard Rodriguez, and William Shakespeare. Students have a choice of novels and longer works to study, including works by Jane Austen, Charles Dickens, and Elie Wiesel.

Language Skills: In this course, students become more proficient writers and readers. In composition lessons, students analyze model essays from readers’ and writers’ perspectives, focusing on ideas and content, structure and organization, style, word choice, and tone. Students receive feedback during the writing process to help them work toward a polished final draft. In addition to writing formal essays, résumés, and business letters, students write and deliver a persuasive speech. Students expand their knowledge of grammar, usage, and mechanics through sentence analysis and structure, syntax, agreement, and conventions. Unit pretests identify skills to address more fully. Students strengthen their vocabularies through thematic units focused on word roots, suffixes and prefixes, context clues, and other important vocabulary-building strategies.

Course Length: Two semesters
Materials: Journeys in Literature: Classic and Modern; Vocabulary for Achievement, Fourth Course; Macbeth by William Shakespeare
Prerequisites: ENG104: Honors Literary Analysis and Composition I (or equivalent) and teacher/school counselor recommendation

ENG206: Literary Analysis and Composition II (Credit Recovery)

In this course, students read classic and modern works of literature, sharpening their reading comprehension skills and analyzing important human issues. They review effective strategies for oral and written expression, grammar, usage, and mechanics. Thematic units focus on word roots, suffixes and prefixes, context clues, and other strategies that help students strengthen their vocabularies. Diagnostic tests assess students’ current knowledge and generate individualized study plans, so students can focus on topics that need review.

Course Length: Two semesters
Materials: Explorations: An Anthology of Literature, Volume B; The Miracle Worker by William Gibson
Prerequisites: Student previously took the course or its equivalent but did not receive credit; and teacher/school counselor recommendation

ENG302: American Literature (Core)

In this genre-based course, students sharpen their reading comprehension skills and analyze important themes in classic and modern works of American literature, including short stories, poetry, drama, and novels. Students refine their skills of written expression
by writing memoirs, persuasive essays, research essays, workplace documentation, and more. They develop vocabulary skills and refresh their knowledge of grammar, usage, and mechanics in preparation for standardized tests.

**Literature:** Students read short stories, poetry, drama, and novels, sharpening their reading comprehension skills and analyzing important themes in American literature.

**Language Skills:** Students continue to work on their oral and written expression skills, writing a variety of essays, including memoirs, persuasive and research essays, and workplace documentation. Students plan, organize, and revise their essays in response to feedback.

**Course Length:** Two semesters

**Materials:** *Explorations: An Anthology of American Literature, Volume C; Our Town* by Thornton Wilder; *To Kill a Mockingbird* by Harper Lee

**Prerequisites:** ENG202: Literary Analysis and Composition II (or equivalent)

**ENG303: American Literature (Comprehensive)**

In this course, students read and analyze works of American literature from colonial to contemporary times, including poetry, short stories, novels, drama, and nonfiction. The literary works provide opportunities for critical writing, creative projects, and online discussions. Students develop vocabulary skills and refresh their knowledge of grammar, usage, and mechanics in preparation for standardized tests.

**Course Length:** Two semesters

**Materials:** *Journeys in Literature: American Traditions, Volume C; The Great Gatsby* by F. Scott Fitzgerald; *The Glass Menagerie* by Tennessee Williams. Students will also read one selection of their choice from the following (not supplied): *The Old Man and the Sea* by Ernest Hemingway; *The House on Mango Street* by Sandra Cisneros; *A Lesson Before Dying* by Ernest Gaines; *The Red Badge of Courage* by Stephen Crane

**Prerequisites:** ENG203: Literary Analysis and Composition II (or equivalent)

**ENG304: Honors American Literature**

In this course, students read and analyze works of American literature from colonial to contemporary times, including poetry, short stories, novels, drama, and nonfiction. The literary works provide opportunities for critical writing, creative projects, and online discussions. Students develop vocabulary skills and refresh their knowledge of grammar, usage, and mechanics in preparation for standardized tests. Students enrolled in this challenging course will also complete independent projects that deepen their understanding of the themes and ideas presented in the curriculum.

**Course Length:** Two semesters

**Materials:** *Journeys in Literature: American Traditions, Volume C; The Great Gatsby* by F. Scott Fitzgerald; *The Glass Menagerie* by Tennessee Williams. Students will also read one selection of their choice from the following (not supplied): *The Old Man and the Sea* by Ernest Hemingway; *The House on Mango Street* by Sandra Cisneros; *A Lesson Before Dying* by Ernest Gaines; *The Red Badge of Courage* by Stephen Crane; and two selections of their choice from the following: *Billy Budd* by Herman Melville; *A Connecticut Yankee in King Arthur’s Court* by Mark Twain; *Catcher in the Rye* by J.D. Salinger; *Song of Solomon* by Toni Morrison

**Prerequisites:** ENG204: Honors Literary Analysis and Composition II (or equivalent) and teacher/school counselor recommendation
ENG306: American Literature (Credit Recovery)

Students sharpen their reading comprehension skills and analyze important themes in classic and modern works of American literature. They review effective strategies for written expression. They develop vocabulary skills and refresh their knowledge of grammar, usage, and mechanics in preparation for standardized tests. Diagnostic tests assess students’ current knowledge and generate individualized study plans, so students can focus on topics that need review.

Course Length: Two semesters  
Materials: Explorations: An Anthology of American Literature, Volume C; Our Town by Thornton Wilder; To Kill a Mockingbird by Harper Lee  
Prerequisites: Student previously took the course or its equivalent but did not receive credit; and teacher/school counselor recommendation

ENG402: British and World Literature (Core)

This course engages students in selections from British and world literature from the ancient world through modern times. They practice analytical writing and have opportunities for creative expression. Students also practice test-taking skills for standardized assessments in critical reading and writing.

Course Length: Two semesters  
Materials: Explorations: An Anthology of British and World Literature  
Prerequisites: ENG302: American Literature (or equivalent)

ENG403: British and World Literature (Comprehensive)

Students read selections from British and world literature in a loosely organized chronological framework. They analyze the themes, styles, and structures of these texts and make thematic connections among diverse authors, periods, and settings. Students complete guided and independent writing assignments that refine their analytical skills. They have opportunities for creative expression in projects of their choice. Students also practice test-taking skills for standardized assessments in critical reading and writing.

Course Length: Two semesters  
Materials: Journeys in Literature: British and World Classics; Hamlet by William Shakespeare  
Prerequisites: ENG303: American Literature (or equivalent)

ENG404: Honors British and World Literature

Students read selections from British and world literature in a loosely organized chronological framework. They analyze the themes, styles, and structures of these texts and make thematic connections among diverse authors, periods, and settings. Students work independently on many of their analyses and engage in creative collaboration with their peers. Students also practice test-taking skills for standardized assessments in critical reading and writing.

Course Length: Two semesters  
Materials: Journeys in Literature: British and World Classics; Hamlet by William Shakespeare  
Prerequisites: ENG204: Honors Literary Analysis and Composition II (or equivalent ) or ENG304: Honors American Literature (or equivalent), and teacher/school counselor recommendation
ENG406: British and World Literature (Credit Recovery)

This course engages students in selections from British and world literature from the ancient world through modern times. They practice analytical writing and have opportunities for creative expression. Students also practice test-taking skills for standardized assessments in critical reading and writing. Diagnostic tests assess students’ current knowledge and generate individualized study plans, so students can focus on topics that need review.

Course Length: Two semesters  
Materials: Explorations: An Anthology of British and World Literature  
Prerequisites: Student previously took the course or its equivalent but did not receive credit, and teacher/school counselor recommendation

ENG500: AP English Language and Composition

Students learn to understand and analyze complex works by a variety of authors. They explore the richness of language, including syntax, imitation, word choice, and tone. They also learn composition style and process, starting with exploration, planning, and writing. This continues with editing, peer review, rewriting, polishing, and applying what they learn to academic, personal, and professional contexts. In this equivalent of an introductory college-level survey class, students prepare for the AP Exam and for further study in communications, creative writing, journalism, literature, and composition.

Course Length: Two semesters  
Prerequisites: ENG204: Honors Literary Analysis and Composition II (or equivalent) or ENG304: Honors American Literature (or equivalent), and teacher/school counselor recommendation

ENG510: AP English Literature and Composition

In this course, the equivalent of an introductory college-level survey class, students are immersed in novels, plays, poems, and short stories from various periods. Students read and write daily, using a variety of multimedia and interactive activities, interpretive writing assignments, and discussions. The course places special emphasis on reading comprehension, structural and critical analyses of written works, literary vocabulary, and recognizing and understanding literary devices. Students prepare for the AP Exam and for further study in creative writing, communications, journalism, literature, and composition.

Course Length: Two semesters  
Required (second semester): The Great Gatsby by F. Scott Fitzgerald; Annie John by Jamaica Kincaid; Jane Eyre by Charlotte Bronte  
Prerequisites: ENG204: Honors Literary Analysis and Composition II (or equivalent) or ENG304: Honors American Literature (or equivalent), and teacher/school counselor recommendation
**ENG010: Journalism (Elective)**

Students are introduced to the historical importance of journalism in America. They study the basic principles of print and online journalism as they examine the role of printed news media in our society. They learn investigative skills, responsible reporting, and journalistic writing techniques as they read, respond to, and write their own news and feature articles. Students conduct interviews, research, write, and design their own publications.

Course Length: One semester  
Materials: None  
Prerequisites: None

**ENG020: Public Speaking (Elective)**

Students are introduced to public speaking as an important component of their academic, work, and social lives. They study public speaking occasions and develop skills as fair and critical listeners, or consumers, of spoken information and persuasion. Students study types of speeches (informative, persuasive, dramatic, and special occasion), read and listen to models of speeches, and prepare and present their own speeches to diverse audiences. Students learn to choose speaking topics and adapt them for specific audiences, to research and support their ideas, and to benefit from listener feedback. They study how to incorporate well-designed visual and multimedia aids in presentations and how to maintain a credible presence in the digital world. Students also learn about the ethics of public speaking and about techniques for managing communication anxiety.

Course Length: One semester  
Materials: Student must provide a webcam and recording software  
Prerequisites: None

**ENG030: Creative Writing (Elective)**

Students create original essays, poems, and short stories in this course, which uses two textbooks and focuses on the four-step process writing model. They read professionally written forms of creative writing as models and then integrate their impressions of these works with their personal life experiences as they compose their own writing projects. Students are encouraged to write about topics they find engaging as they practice writing on the following themes: narration, definition, process analysis, cause and effect, and comparison/contrast. After students turn in each assignment, the teacher supplies detailed suggestions for revision. This feedback helps students learn how to improve their self-expression and self-editing skills.

Course Length: Two semesters  
Materials: None  
Prerequisites: None

**OTH036: Gothic Literature (Elective)**

Since the eighteenth century, Gothic tales have influenced fiction writers and fascinated readers. This course focuses on the major themes found in Gothic literature and demonstrates how the core writing drivers produce a suspenseful environment for
High readers. It presents some of the recurring themes and elements found in the genre. As they complete the course, students gain an understanding of and an appreciation for the complex nature of Gothic literature.

**Course Length:** One semester  
**Materials:** None  
**Prerequisites:** None

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**MTH001: Math Foundations I (Remediation)**

Students build and reinforce foundational math skills typically found in third through fifth grade for which they have not achieved mastery. They progress through carefully paced, guided instruction and engaging interactive practice. If needed, students can move on to Math Foundations II (addressing skills typically found in sixth through eighth grade) to further develop the computational skills and conceptual understanding needed to undertake high school math courses with confidence.

**Course Length:** Two semesters  
**Materials:** None  
**Prerequisites:** Teacher/school counselor recommendation

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**MTH011: Math Foundations II (Remediation)**

Students build and reinforce foundational math skills typically found in sixth through eighth grade, achieving the computational skills and conceptual understanding needed to undertake high school math courses with confidence. Carefully paced, guided instruction is accompanied by interactive practice that is engaging and accessible. This course is appropriate for use as remediation at the high school level or as a bridge to high school.

**Course Length:** Two semesters  
**Materials:** None  
**Prerequisites:** Teacher/school counselor recommendation; MTH001: Math Foundations I is not required

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**MTH322: Consumer Math (Core)**

In Consumer Math, students study and review arithmetic skills they can apply in their personal lives and in their future careers. The first semester of the course begins with a focus on occupational topics; it includes details on jobs, wages, deductions, taxes, insurance, recreation and spending, and transportation. In the second semester, students learn about personal finances, checking and savings accounts, loans and buying on credit, automobile expenses, and housing expenses. Narrated slideshows help illustrate some of the more difficult content. Throughout the course, students participate in online discussions with each other and their teacher.

**Course Length:** Two semesters  
**Materials:** None  
**Prerequisites:** None
MTH112: Pre-Algebra (Core)

In this course, students learn computational and problem-solving skills and the language of algebra. Students translate word phrases and sentences into mathematical expressions; analyze geometric figures; solve problems involving percentages, ratios, and proportions; graph different kinds of equations and inequalities; calculate statistical measures and probabilities; apply the Pythagorean theorem; and explain strategies for solving real-world problems. The textbook provides students with a ready reference and explanations that supplement the online material. Online lessons provide demonstrations of concepts, as well as interactive problems with contextual feedback.

Course Length: Two semesters  
Materials: Pre-Algebra: A Reference Guide and Problem Sets  
Prerequisites: K12 Middle School Fundamentals of Geometry and Algebra, or MTH011-APL: Math Foundations II (or equivalents)

Note: Students who have already succeeded in K12 Middle School Pre-Algebra or Intermediate Mathematics C should not enroll in this course.

MTH113: Pre-Algebra (Comprehensive)

In this course, students take a broader look at computational and problem-solving skills while learning the language of algebra. Students translate word phrases and sentences into mathematical expressions; analyze geometric figures; solve problems involving percentages, ratios, and proportions; graph different kinds of equations and inequalities; calculate statistical measures and probabilities; apply the Pythagorean theorem; and explain strategies for solving real-world problems. Online lessons provide demonstrations of key concepts as well as interactive problems with contextual feedback. A textbook supplements the online material.

Course Length: Two semesters  
Materials: Pre-Algebra: A Reference Guide and Problem Sets  
Prerequisites: K12 Middle School Fundamentals of Geometry and Algebra (or equivalent)

Note: Students who have already succeeded in K12 Middle School Pre-Algebra or Intermediate Mathematics C should not enroll in this course.

MTH116: Pre-Algebra (Credit Recovery)

In this course, students review computational and problem-solving skills and the language of algebra. Topics include mathematical expressions; geometric figures; percentages, ratios, and proportions; graphs for equations and inequalities; statistical measures and probabilities; the Pythagorean theorem; and strategies for solving world problems. Diagnostic tests assess students’ current knowledge and generate individualized study plans, so students can focus on topics that need review.

Course Length: Two semesters  
Materials: Pre-Algebra: A Reference Guide and Problem Sets  
Prerequisites: Student previously took the course or its equivalent but did not receive credit; and teacher/school counselor recommendation

MTH107: Developmental Algebra (Core)

This is the first course in a two-year algebra sequence that concludes with Continuing Algebra. In this course, students begin to explore the tools and principles of algebra.
Students learn to identify the structure and properties of the real number system; complete operations with integers and other rational numbers; work with square roots and irrational numbers; graph linear equations; solve linear equations and inequalities in one variable; and solve systems of linear equations. Sophisticated virtual manipulatives and online graphing tools help students visualize algebraic relationships. Developmental Algebra covers fewer topics than a one-year algebra course, providing students with more time to learn and practice key concepts and skills. After completing Developmental Algebra, students will be prepared to take Continuing Algebra.

Course Length: Two semesters  
Materials: Algebra I: A Reference Guide and Problem Sets  
Prerequisites: MTH112: Pre-Algebra (or equivalent)

MTH207: Continuing Algebra (Core)

This is the second course in a two-year algebra sequence. In this course, students build on what they learned in Developmental Algebra to complete their knowledge of all topics associated with a deep understanding of Algebra I. They learn about relations and functions, radicals and radical expressions, polynomials and their graphs, factoring expressions and using factoring to solve equations, solving quadratics, rational expressions, and logic and reasoning.

Course Length: Two semesters  
Materials: Algebra I: A Reference Guide and Problem Sets  
Prerequisites: MTH107: Developmental Algebra (or equivalent)

MTH122: Algebra I (Core)

In this course, students explore the tools of algebra. Students learn to identify the structure and properties of the real number system; complete operations with integers and other rational numbers; work with square roots and irrational numbers; graph linear equations; solve linear equations and inequalities in one variable; solve systems of linear equations; use ratios, proportions, and percentages to solve problems; use algebraic applications in geometry, including the Pythagorean theorem and formulas for measuring area and volume; complete an introduction to polynomials; and understand logic and reasoning.

Course Length: Two semesters  
Materials: Algebra I: A Reference Guide and Problem Sets  
Prerequisites: MTH112: Pre-Algebra (or equivalent)

Note: Students who have already succeeded in KCK Middle School Algebra I should not enroll in this course.

MTH123: Algebra I (Comprehensive)

Students develop algebraic fluency by learning the skills needed to solve equations and perform manipulations with numbers, variables, equations, and inequalities. They also learn concepts central to the abstraction and generalization that algebra makes possible. Topics include simplifying expressions involving variables, fractions, exponents, and radicals; working with integers, rational numbers, and irrational numbers; graphing and solving equations and inequalities; using factoring, formulas, and other techniques to solve quadratic and other polynomial equations; formulating valid mathematical arguments using various types of reasoning; and translating word problems into
mathematical equations and then using the equations to solve the original problems. Compared to MTH122, this course has a more rigorous pace and more challenging assignments and assessments. It covers additional topics, including translating functions, higher degree roots, and more complex factoring techniques.

**Course Length:** Two semesters  
**Materials:** Algebra I: A Reference Guide and Problem Sets  
**Prerequisites:** K^2 Pre-Algebra, MTH113. Pre-Algebra (or equivalent)

*Note: Students who have already succeeded in K^2 Middle School Algebra I should not enroll in this course.*

**MTH124: Honors Algebra I**

This course prepares students for more advanced courses while they develop algebraic fluency, learn the skills needed to solve equations, and perform manipulations with numbers, variables, equations, and inequalities. They also learn concepts central to the abstraction and generalization that algebra makes possible. Topics include simplifying expressions involving variables, fractions, exponents, and radicals; working with integers, rational numbers, and irrational numbers; graphing and solving equations and inequalities; using factoring, formulas, and other techniques to solve quadratic and other polynomial equations; formulating valid mathematical arguments using various types of reasoning; and translating word problems into mathematical equations and then using the equations to solve the original problems. This course includes all the topics in MTH123, but includes more challenging assignments and optional challenge activities. Each semester also includes an independent honors project.

**Course Length:** Two semesters  
**Materials:** Algebra I: A Reference Guide and Problem Sets  
**Prerequisites:** Success in previous math course and teacher/school counselor recommendation

*Note: Students who have already succeeded in K^2 Middle School Algebra I should not enroll in this course.*

**MTH126: Algebra I (Credit Recovery)**

In this course, students review the tools of algebra. Topics include the structure and properties of real numbers; operations with integers and other rational numbers; square roots and irrational numbers; linear equations; ratios, proportions, and percentages; the Pythagorean theorem; polynomials; and logic and reasoning. Diagnostic tests assess students’ current knowledge and generate individualized study plans, so students can focus on topics that need review.

**Course Length:** Two semesters  
**Materials:** Algebra I: A Reference Guide and Problem Sets  
**Prerequisites:** Student previously took the course or its equivalent but did not receive credit; and teacher/school counselor recommendation

**MTH148: Integrated Mathematics I**

This first-year high school integrated math course focuses on linear and simple exponential models. The course contrasts linear behavior with exponential behavior, and uses both linear and simple exponential equations as models. Students learn about and
work extensively with functions—analyzing function properties and behavior, creating new functions from known functions, and applying functions to various continuous and discrete situations. The statistics in the course focus on modeling. Topics in geometry include constructions, transformations, similarity, and congruence, and students use the Pythagorean theorem in analytic geometry contexts.

Course Length: Two semesters  
Prerequisites: K12 Intermediate Mathematics C or MTH113: Pre-Algebra (or equivalent)

**MTH202: Geometry (Core)**

Students learn to recognize and work with core geometric concepts in various contexts. They develop sound ideas of inductive and deductive reasoning, logic, concepts, and techniques of Euclidean plane and solid geometry, as well as a solid, basic understanding of mathematical structure, method, and applications of Euclidean plane and solid geometry. Students use visualizations, spatial reasoning, and geometric modeling to solve problems. Topics of study include points, lines, and angles; triangles; right triangles; quadrilaterals and other polygons; circles; coordinate geometry; three-dimensional solids; geometric constructions; symmetry; and the use of transformations.

Course Length: Two semesters  
Materials: Geometry: A Reference Guide; a drawing compass, protractor, and ruler  
Prerequisites: MTH122: Algebra I (or equivalent)

**MTH203: Geometry (Comprehensive)**

In this comprehensive course, students are challenged to recognize and work with geometric concepts in various contexts. They build on ideas of inductive and deductive reasoning, logic, concepts, and techniques of Euclidean plane and solid geometry. They develop deeper understandings of mathematical structure, method, and applications of Euclidean plane and solid geometry. Students use visualizations, spatial reasoning, and geometric modeling to solve problems. Topics of study include points, lines, and angles; triangles; right triangles; quadrilaterals and other polygons; circles; coordinate geometry; three-dimensional solids; geometric constructions; symmetry; the use of transformations; and non-Euclidean geometries.

Course Length: Two semesters  
Materials: Geometry: A Reference Guide; a drawing compass, protractor, and ruler  
Prerequisites: MTH123: Algebra I (or equivalent)

**MTH204: Honors Geometry**

Students work with advanced geometric concepts in various contexts. They build in-depth ideas of inductive and deductive reasoning, logic, concepts, and techniques of Euclidean plane and solid geometry. They also develop a sophisticated understanding of mathematical structure, method, and applications of Euclidean plane and solid geometry. Students use visualizations, spatial reasoning, and geometric modeling to solve problems. Topics of study include points, lines, and angles; triangles; right triangles; quadrilaterals and other polygons; circles; coordinate geometry; three-dimensional solids; geometric constructions; symmetry; the use of transformations; and non-Euclidean geometries. Students work on additional challenging assignments, assessments, and research projects.
Course Length: Two semesters  
Materials: Geometry: A Reference Guide; a drawing compass, protractor, and ruler  
Prerequisites: MTH123: Algebra I or MTH124: Honors Algebra I (or equivalent) and teacher/school counselor recommendation

**MTH206: Geometry (Credit Recovery)**

Students review core geometric concepts as they develop sound ideas of inductive and deductive reasoning, logic, concepts, and techniques and applications of Euclidean plane and solid geometry. Students use visualizations, spatial reasoning, and geometric modeling to solve problems. Topics include points, lines, and angles; triangles, polygons, and circles; coordinate geometry; three-dimensional solids; geometric constructions; symmetry; and the use of transformations. Diagnostic tests assess students’ current knowledge and generate individualized study plans, so students can focus on topics that need review.

Course Length: Two semesters  
Materials: Geometry: A Reference Guide; a drawing compass, protractor, and ruler  
Prerequisites: Student previously took the course or its equivalent but did not receive credit; and teacher/school counselor recommendation

**MTH248: Integrated Mathematics II**

Integrated Mathematics II, a second-year high school math course, focuses on extending the number system to include irrational and complex numbers, as well as computation with quadratic polynomials. The course continues with quadratic expressions, equations, and functions, including making comparisons to their linear and exponential counterparts, covered in MTH148: Integrated Mathematics I. The course also introduces conditional probability as a way to make better decisions when given limited information. Geometry topics include similarity, right triangle trigonometry, and volume. Students use the tools of analytic geometry, synthesizing algebra and geometry concepts, to describe circles and parabolas in the coordinate plane.

Course Length: Two semesters  
Prerequisites: MTH148: Integrated Mathematics I (or equivalent)

**MTH302: Algebra II (Core)**

This course builds upon algebraic concepts covered in Algebra I. Students solve open-ended problems and learn to think critically. Topics include conic sections; functions and their graphs; quadratic functions; inverse functions; and advanced polynomial functions. Students are introduced to rational, radical, exponential, and logarithmic functions; sequences and series; and data analysis.

Course Length: Two semesters  
Materials: Algebra II: A Reference Guide and Problem Sets; Texas Instruments T1-84 Plus graphing calculator is recommended  
Prerequisites: MTH122: Algebra I and MTH202: Geometry (or equivalent)

**MTH303: Algebra II (Comprehensive)**

This course builds upon algebraic concepts covered in Algebra I and prepares students for advanced-level courses. Students extend their knowledge and understanding by solving
MTH304: Honors Algebra II

This course builds upon advanced algebraic concepts covered in Algebra I and prepares students for advanced-level courses. Students extend their knowledge and understanding by solving open-ended problems and thinking critically. Topics include functions and their graphs; quadratic functions; complex numbers, and advanced polynomial functions. Students are introduced to rational, radical, exponential, and logarithmic functions; sequences and series; probability; statistics; and conic sections. Students work on additional challenging assignments, assessments, and research projects.

Course Length: Two semesters
Materials: Algebra II: A Reference Guide and Problem Sets; Texas Instruments T1-84 Plus graphing calculator is recommended
Prerequisites: MTH123: Algebra I and MTH203: Geometry (or equivalents)

MTH306: Algebra II (Credit Recovery)

This course builds upon algebraic concepts covered in Algebra I. Students solve open-ended problems and learn to think critically. Topics include conic sections; functions and their graphs; quadratic functions; inverse functions; and advanced polynomial functions. Students review rational, radical, exponential, and logarithmic functions; sequences and series; and data analysis. Diagnostic tests assess students’ current knowledge and generate individualized study plans, so students can focus on topics that need review.

Course Length: Two semesters
Materials: Algebra II: A Reference Guide and Problem Sets; Texas Instruments T1-84 Plus graphing calculator is recommended
Prerequisites: Student previously took the course or its equivalent but did not receive credit; and teacher/school counselor recommendation

MTH307: Practical Math (Core)

In this course, students use math to solve real-world problems—and real-world problems to solidify their understanding of key mathematical topics. Data analysis, math modeling, and personal finance are key themes in this course. Specific topics of study include statistics, probability, graphs of statistical data, regression, finance, and budgeting. In addition, students learn how to use several mathematical models involving algebra and geometry to solve problems. Proficiency is measured through frequent online and offline assessments, as well as class participation. Units focused on projects also allow students to apply and extend their math skills in real-world cases.
**MTH348: Integrated Mathematics II**

In this third-year high school math course, students encounter unified instruction reviewing and expanding all previous high school math topics. First, they extend their work on polynomials beyond quadratics to graphing, problem solving, and working with rational expressions. Next, they use statistical and probability tools, such as the standard normal distribution, to understand data. Students make inferences using simulations, experiments, and surveys. In geometry, they extend trigonometric concepts to general triangles and use trigonometric functions to model periodic processes. Finally, students substantially use mathematical modeling by making use of well-developed skills with various mathematical tools.

**Course Length:** Two semesters  
**Materials:** Integrated Mathematics III: A Reference Guide and Problem Sets  
**Prerequisites:** MTH248: Integrated Mathematics II (or equivalent)

**MTH403: Pre-Calculus/Trigonometry (Comprehensive)**

Pre-calculus weaves together previous study of algebra, geometry, and functions into a preparatory course for calculus. The course focuses on the mastery of critical skills and exposure to new skills necessary for success in subsequent math courses. Topics include linear, quadratic, exponential, logarithmic, radical, polynomial, and rational functions; systems of equations; and conic sections in the first semester. The second semester covers trigonometric ratios and functions; inverse trigonometric functions; applications of trigonometry, including vectors and laws of cosine and sine; polar functions and notation; and arithmetic of complex numbers.

Cross-curricular connections are made throughout the course to calculus, art, history, and a variety of other fields related to mathematics.

**Course Length:** Two semesters  
**Materials:** Texas Instruments T1-84 Plus graphing calculator is recommended  
**Prerequisites:** MTH203: Geometry and MTH303: Algebra II (or equivalents)

**MTH413: Probability and Statistics (Comprehensive)**

Students learn counting methods, probability, descriptive statistics, graphs of data, the normal curve, statistical inference, and linear regression. Proficiency is measured through frequent online and offline assessments, as well as asynchronous discussions. Problem-solving activities provide an opportunity for students to demonstrate their skills in real world situations.

**Course Length:** One semester  
**Materials:** Probability and Statistics: A Reference Guide and Problem Sets  
**Prerequisites:** MTH 302: Algebra II (or equivalent)
**MTH433: Calculus (Comprehensive)**

This course provides a comprehensive survey of differential and integral calculus concepts, including limits, derivative and integral computation, linearization, Riemann sums, the fundamental theorem of calculus, and differential equations. Content is presented across ten units and covers various applications, including graph analysis, linear motion, average value, area, volume, and growth and decay models. In this course students use an online textbook, which supplements the instruction they receive and provides additional opportunities to practice using the content they've learned. Students will use an embedded graphing calculator applet (GC Calc) for their work on this course; the software for the applet can be downloaded at no charge.

**Course Length:** Two semesters  
**Materials:** Java is needed for the embedded graphing calculator applet (GC Calc)  
**Prerequisites:** MTH403: Pre-Calculus/Trigonometry (or equivalent)

**MTH500: AP Calculus AB**

This course is the equivalent of an introductory college-level calculus course. Calculus helps scientists, engineers, and financial analysts understand the complex relationships behind real-world phenomena. Students learn to evaluate the soundness of proposed solutions and apply mathematical reasoning to real-world models. Students also learn to understand change geometrically and visually (by studying graphs of curves), analytically (by studying and working with mathematical formulas), numerically (by seeing patterns in sets of numbers), and verbally. Students prepare for the AP Exam and further studies in science, engineering, and mathematics.

**Course Length:** Two semesters  
**Materials:** *Calculus of a Single Variable, AP Edition* (9th ed.), Larson, Ron, and Bruce H. Edwards; Texas Instruments T1-84 Plus graphing calculator is recommended  
**Prerequisites:** MTH204: Honors Geometry, MTH304: Honors Algebra II, MTH403: Pre-Calculus/Trigonometry (or equivalents), and teacher/school counselor recommendation

**MTH510: AP Statistics**

This course is the equivalent of an introductory college-level course. Statistics—the art of drawing conclusions from imperfect data and the science of real-world uncertainties—plays an important role in many fields. Students collect, analyze, graph, and interpret real-world data. They learn to design and analyze research studies by reviewing and evaluating examples from real research. Students prepare for the AP Exam and for further study in science, sociology, medicine, engineering, political science, geography, and business.

**Course Length:** Two semesters  
**Materials:** Texas Instruments T1-84 Plus graphing calculator is recommended  
**Prerequisites:** MTH304: Honors Algebra II (or equivalent) and teacher/school counselor recommendation

**MTH520: AP Calculus BC**

This course is the equivalent of an introductory college-level calculus course. In this course, students study functions, limits, derivatives, integrals, and infinite series. Calculus helps scientists, engineers, and financial analysts understand the complex relationships behind real-world phenomena. Students learn to evaluate the soundness
of proposed solutions and apply mathematical reasoning to real-world models. Students also learn to understand change geometrically and visually (by studying graphs of curves), analytically (by studying and working with mathematical formulas), numerically (by seeing patterns in sets of numbers), and verbally. Students prepare for the AP Exam and further studies in science, engineering, and mathematics.

**Course Length:** Two semesters  
**Materials:** *Calculus of a Single Variable, AP Edition* (9th ed.), Larson, Ron, and Bruce H. Edwards; Texas Instruments T1-84 Plus graphing calculator is recommended  
**Prerequisites:** MTH204: Honors Geometry, MTH304: Honors Algebra II, MTH403: Pre-Calculus/Trigonometry (or equivalents), and teacher/school counselor recommendation

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**SCI102: Physical Science (Core)**

Students explore the relationship between matter and energy by investigating force and motion, the structure of atoms, the structure and properties of matter, chemical reactions, and the interactions of energy and matter. Students develop skills in measuring, solving problems, using laboratory apparatuses, following safety procedures, and adhering to experimental procedures. Students focus on inquiry-based learning, with both hands-on laboratory investigations and virtual laboratory experiences.

**Course Length:** Two semesters  
**Materials:** *Physical Science: A Laboratory Guide*  
**Prerequisites:** K12 Middle School Physical Science (or equivalent)

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**SCI106: Physical Science (Credit Recovery)**

Students explore the relationship between matter and energy by investigating force and motion, the structure of atoms, the structure and properties of matter, chemical reactions, and the interactions of energy and matter. They review strategies for describing and measuring scientific concepts. Diagnostic tests assess students’ current knowledge and generate individualized study plans, so students can focus on topics that need review.

**Course Length:** Two semesters  
**Materials:** None  
**Prerequisites:** Student previously took the course or its equivalent but did not receive credit; and teacher/school counselor recommendation

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**SCI112: Earth Science (Core)**

This course provides students with a solid earth science curriculum, focusing on geology, oceanography, astronomy, weather, and climate. The program consists of online lessons, an associated reference book, collaborative activities, virtual laboratories, and hands-on laboratories students can conduct at home. The course provides a base for further studies in geology, meteorology, oceanography, and astronomy, and gives practical experience in implementing scientific methods.
**SCI113: Earth Science (Comprehensive)**

This course provides students with a comprehensive earth science curriculum, focusing on geology, oceanography, astronomy, weather, and climate. The program consists of in-depth online lessons, an associated reference book, collaborative activities, virtual laboratories, and hands-on laboratories students can conduct at home. The course prepares students for further studies in geology, meteorology, oceanography, and astronomy courses, and gives them practical experience in implementing scientific methods.

**Course Length:** Two semesters  
**Materials:** *Earth Science: A Reference Guide*  
**Prerequisites:** K12 Middle School Earth Science (or equivalent)

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**SCI114: Honors Earth Science**

This challenging course provides students with an honors-level earth science curriculum, focusing on geology, oceanography, astronomy, weather, and climate. The program consists of online lessons, an associated reference book, collaborative activities, and hands-on laboratories students can conduct at home. The course prepares students for advanced studies in geology, meteorology, oceanography, and astronomy courses, and gives them more sophisticated experience in implementing scientific methods. Additional honors assignments include debates, research papers, extended collaborative laboratories, and virtual laboratories.

**Course Length:** Two semesters  
**Materials:** *Earth Science: A Reference Guide*  
**Prerequisites:** K12 Middle School Life Science (or equivalent), success in previous science course, and teacher/school counselor recommendation

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**SCI116: Earth Science (Credit Recovery)**

This course provides students with a solid earth science curriculum. Students learn how the earth works, how it changes, and its place in the universe. They become familiar with the terminology, concepts, and practical applications of earth science and explore topics in geology, meteorology, oceanography, astronomy, and scientific methods. Diagnostic tests assess students’ current knowledge and generate individualized study plans, so students can focus on topics that need review.

**Course Length:** Two semesters  
**Materials:** *Earth Science: A Reference Guide*  
**Prerequisites:** Student previously took the course or its equivalent but did not receive credit; and teacher/school counselor recommendation
SCI202: Biology (Core)
In this course, students focus on the chemistry of living things: the cell, genetics, evolution, the structure and function of living things, and ecology. The program consists of online lessons, including extensive animations, an associated reference book, collaborative activities, virtual laboratories, and hands-on laboratory experiments students can conduct at home.

Course Length: Two semesters
Materials: Biology: A Reference Guide
Prerequisites: K12 Middle School Life Science (or equivalent)

SCI203: Biology (Comprehensive)
In this comprehensive course, students investigate the chemistry of living things: the cell, genetics, evolution, the structure and function of living things, and ecology. The program consists of in-depth online lessons, including extensive animations, an associated reference book, collaborative explorations, virtual laboratories, and hands-on laboratory experiments students can conduct at home.

Course Length: Two semesters
Materials: Biology: A Reference Guide
Prerequisites: K12 Middle School Life Science (or equivalent)

SCI204: Honors Biology
This course provides students with a challenging honors-level biology curriculum, focusing on the chemistry of living things: the cell, genetics, evolution, the structure and function of living things, and ecology. The program consists of advanced online lessons, including extensive animations, an associated reference book, collaborative explorations, and hands-on laboratory experiments students can conduct at home. Honors activities include debates, research papers, extended collaborative laboratories, and virtual laboratories.

Course Length: Two semesters
Materials: Biology: A Reference Guide
Prerequisites: K12 Middle School Life Science (or equivalent), success in previous science course, and teacher/school counselor recommendation

SCI206: Biology (Credit Recovery)
Topics include the scientific method, characteristics of living things, energy, organic compounds, and water. Students review the structure and function of living things, the cell, genetics, DNA, RNA, and proteins. They review evolution and natural selection; digestive, respiratory, nervous, reproductive, and muscular systems; and ecology and the environment. Diagnostic tests assess students’ current knowledge and generate individualized study plans, so students can focus on topics that need review.

Course Length: Two semesters
Materials: Biology: A Reference Guide
Prerequisites: Student previously took the course or its equivalent but did not receive credit; and teacher/school counselor recommendation
**SCI302: Chemistry (Core)**

This course surveys all key areas of chemistry, including atomic structure, chemical bonding and reactions, solutions, stoichiometry, thermochemistry, organic chemistry, and nuclear chemistry. The course includes direct online instruction, virtual laboratories, and related assessments, used with a problem-solving book.

**Course Length:** Two semesters  
**Materials:** *Chemistry: Problems and Solutions*  
**Prerequisites:** K12 Middle School Physical Science or SCI102: Physical Science and satisfactory grasp of algebra basics, evidenced by success in MTH122: Algebra I (or equivalent)

**SCI303: Chemistry (Comprehensive)**

This comprehensive course gives students a solid basis to move on to future studies. The course provides an in-depth survey of all key areas, including atomic structure, chemical bonding and reactions, solutions, stoichiometry, thermochemistry, organic chemistry, and nuclear chemistry. The course includes direct online instruction, virtual laboratories, and related assessments, used with a problem-solving book.

**Course Length:** Two semesters  
**Materials:** *Chemistry: Problems and Solutions*  
**Prerequisites:** Satisfactory completion of either K12 Middle School Physical Science or SCI102: Physical Science and solid grasp of algebra basics, evidenced by success in MTH122: Algebra I (or equivalents)

**SCI304: Honors Chemistry**

This advanced course gives students a solid basis to move on to more advanced courses. The challenging course surveys all key areas, including atomic structure, chemical bonding and reactions, solutions, stoichiometry, thermochemistry, organic chemistry, and nuclear chemistry, enhanced with challenging model problems and assessments. Students complete community-based written research projects, treat aspects of chemistry that require individual research and reporting, and participate in online threaded discussions.

**Course Length:** Two semesters  
**Materials:** *Chemistry: Problems and Solutions*  
**Prerequisites:** Success in previous science course, MTH123 or MTH124: Honors Algebra I (or equivalents), and teacher/school counselor recommendation

**SCI306: Chemistry (Credit Recovery)**

Students review concepts of matter, energy, the metric system, and the scientific method. Other topics include the atom, the periodic table, ionic and covalent bonds; chemical reactions; stoichiometry; gases, liquids, and solids; solutions; and acids and bases. Students review chemical thermodynamics; reaction rates and system equilibria; electrochemical processes; organic chemistry and biochemistry; and nuclear chemistry. Diagnostic tests assess students’ current knowledge and generate individualized study plans, so students can focus on topics that need review.
**SCI403: Physics (Comprehensive)**

This course provides a comprehensive survey of all key areas: physical systems, measurement, kinematics, dynamics, momentum, energy, thermodynamics, waves, electricity, and magnetism, and introduces students to modern physics topics such as quantum theory and the atomic nucleus. The course gives students a solid basis to move on to more advanced courses later in their academic careers. The program consists of online instruction, virtual laboratories, and related assessments, plus an associated problem-solving book.

**Course Length:** Two semesters  
**Materials:** Physics: Problems and Solutions  
**Prerequisites:** MTH303: Algebra II and MTH403: Pre-Calculus/Trigonometry (or equivalents) (MTH403 strongly recommended as a prerequisite, but this course may instead be taken concurrently with SCI403)

**SCI404: Honors Physics**

This advanced course surveys all key areas: physical systems, measurement, kinematics, dynamics, momentum, energy, thermodynamics, waves, electricity, and magnetism, and introduces students to modern physics topics such as quantum theory and the atomic nucleus. Additional honors assignments include debates, research papers, extended collaborative laboratories, and virtual laboratories. The course gives a solid basis for moving on to more advanced college physics courses. The program consists of online instruction, virtual laboratories, and related assessments, plus an associated problem-solving book.

**Course Length:** Two semesters  
**Materials:** Physics: Problems and Solutions  
**Prerequisites:** MTH303: Algebra II or MTH304: Honors Algebra II and MTH403: Pre-Calculus/Trigonometry (MTH403 strongly recommended as a prerequisite, but this course may instead be taken concurrently with SCI404), and teacher/school counselor recommendation

**SCI500: AP Biology**

This course guides students to a deeper understanding of biological concepts, including the diversity and unity of life, energy and the processes of life, homeostasis, and genetics. Students learn about regulation, communication, and signaling in living organisms, as well as interactions of biological systems. Students carry out a number of learning activities, including readings, interactive exercises, extension activities, hands-on laboratory experiments, and practice assessments. These activities are designed to help students gain an understanding of the science process and critical-thinking skills necessary to answer questions on the AP Biology Exam. The content aligns to the sequence of topics recommended by the College Board.

**Course Length:** Two semesters  
**Materials:** Common household materials for labs
Prerequisites: SCI204: Honors Biology, SCI304: Honors Chemistry, MTH124: Honors Algebra I (or equivalents), and teacher/school counselor recommendation required; success in MTH304: Honors Algebra II highly recommended

**SCI510: AP Chemistry**

Students solve chemical problems by using mathematical formulation principles and chemical calculations in addition to laboratory experiments. They build on their general understanding of chemical principles and engage in a more in-depth study of the nature and reactivity of matter. Students focus on the structure of atoms, molecules, and ions, and then go on to analyze the relationship between molecular structure and chemical and physical properties. To investigate this relationship, students examine the molecular composition of common substances and learn to transform them through chemical reactions with increasingly predictable outcomes. Students prepare for the AP Exam. The course content aligns to the sequence of topics recommended by the College Board.

Course Length: Two semesters
Prerequisites: SCI304: Honors Chemistry and MTH304: Honors Algebra II (or equivalents), and teacher/school counselor recommendation

**SCI530: AP Environmental Science**

Students examine the natural world’s interrelationships in AP Environmental Science. During this two-semester course, they identify and analyze environmental problems and their effects and evaluate the effectiveness of proposed solutions. They learn to think like environmental scientists as they make predictions based on observations, write hypotheses, design and complete field studies and experiments, and reach conclusions based on the analysis of resulting data. Students apply the concepts of environmental science to their everyday experiences, current events, and issues in science, politics, and society. The course provides opportunities for guided inquiry and student-centered learning that build critical thinking skills. Prerequisites for enrollment include two years of prior coursework in laboratory sciences (Biology, Chemistry, Earth Science, or Physics).

Course Length: Two semesters
Materials: *Living in the Environment, 17th edition; AP Environmental Science Lab Kit*
Prerequisites: Success in two years of laboratory sciences in the following (or equivalents): usually SCI204 or SCI500 (AP): Biology, or Life Science, and either SCI304 or SCI510 (AP): Chemistry or SCI404 or SCI520 (AP): Physics; and MTH124: Honors Algebra I; SCI114: Honors Earth Science is recommended, and teacher/school counselor recommendation

**SCI010: Environmental Science (Elective)**

This course surveys key topic areas, including the application of scientific process to environmental analysis; ecology; energy flow; ecological structures, earth systems; and atmospheric, land, and water science. Topics also include the management of natural resources and analysis of private and governmental decisions involving the environment. Students explore actual case studies and conduct five hands-on,
High unit-long research activities, learning that political and private decisions about the environment and the use of resources require accurate application of scientific processes, including proper data collection and responsible conclusions.

**Course Length:** One semester  
**Materials:** None  
**Prerequisites:** Success in previous high school science course and teacher/school counselor recommendation

**SCI030: Forensic Science (Elective)**

This course surveys key topics in forensic science, including the application of the scientific process to forensic analysis, procedures and principles of crime scene investigation, physical and trace evidence, and the law and courtroom procedures from the perspective of the forensic scientist. Through online lessons, virtual and hands-on labs, and analysis of fictional crime scenarios, students learn about forensic tools, technical resources, forming and testing hypotheses, proper data collection, and responsible conclusions.

**Course Length:** One semester  
**Materials:** None  
**Prerequisites:** Successful completion of at least two years of high school science, including SCI203: Biology (or equivalent); SCI303: Chemistry is highly recommended

**OTH032: Astronomy (Elective)**

Why do stars twinkle? Is it possible to fall into a black hole? Will the sun ever stop shining? Since the first glimpse of the night sky, humans have been fascinated with the stars, planets, and universe. This course introduces students to the study of astronomy, including its history and development, basic scientific laws of motion and gravity, the concepts of modern astronomy, and the methods used by astronomers to learn more about the universe. Additional topics include the solar system, the Milky Way and other galaxies, and the sun and stars. Using online tools, students examine the life cycle of stars, the properties of planets, and the exploration of space.

**Course Length:** One semester  
**Materials:** None  
**Prerequisites:** None

**HST102: World History (Core)**

In this survey of world history from prehistoric to modern times, students focus on the key developments and events that have shaped civilization across time. The course is organized chronologically and, within broad eras, regionally. Lessons address developments in religion, philosophy, the arts, science and technology, and political history. The course also introduces geography concepts and skills within the context of the historical narrative. Online lessons and assessments complement *World History: Our Human Story*, a textbook written and published by K¹². Students
analyze primary sources and maps, create timelines, and complete other projects—
practicing historical thinking and writing skills as they explore the broad themes and
big ideas of human history.

**Course Length:** Two semesters  
**Materials:** World History: Our Human Story  
**Prerequisites:** K¹² Middle School American History A, World History A or World History B
(or equivalents)

**HST103: World History (Comprehensive)**

In this comprehensive survey of world history from prehistoric to modern times,
students focus in depth on the developments and events that have shaped civilization
across time. The course is organized chronologically and, within broad eras, regionally.
Lessons address developments in religion, philosophy, the arts, science and technology,
and political history. The course also introduces geography concepts and skills within
the context of the historical narrative. Online lessons and assessments complement
World History: Our Human Story, a textbook written and published by K¹². Students are
challenged to consider topics in depth as they analyze primary sources and maps, create
timelines, and complete other projects—practicing historical thinking and writing skills
as they explore the broad themes and big ideas of human history.

**Course Length:** Two semesters  
**Materials:** World History: Our Human Story  
**Prerequisites:** K¹² Middle School American History A, World History A or World History B
(or equivalents)

**HST104: Honors World History**

In this challenging survey of world history from prehistoric to modern times, students
focus in-depth on the developments and events that have shaped civilization across
time. The course is organized chronologically and, within broad eras, regionally.
Lessons address developments in religion, philosophy, the arts, science and technology,
and political history. The course also introduces geography concepts and skills within
the context of the historical narrative. Online lessons and assessments complement
World History: Our Human Story, a textbook written and published by K¹². Students are
challenged to consider topics in depth as they analyze primary sources and maps, create
timelines, and complete other projects—practicing advanced historical thinking and
writing skills as they explore the broad themes and big ideas of human history. Students
complete an independent honors project each semester.

**Course Length:** Two semesters  
**Materials:** World History: Our Human Story  
**Prerequisites:** K¹² Middle School American History A, World History A or World History B
(or equivalents)

**HST106: World History (Credit Recovery)**

This course traces the development of civilizations around the world from prehistory to
the present, with a special emphasis on key periods and primary sources. The course
covers major events in world history, including the development and influence of
human-geographic relationships, political and social structures, economics, science and
technology, and the arts. Students investigate the major religions and belief systems
Throughout history and learn about the importance of trade and cultural exchange. Other topics include the development of agriculture, the spread of democracy, the rise of nation-states, the industrial era, the spread of imperialism, and the issues and conflicts of the twentieth century. Diagnostic tests assess students’ current knowledge and generate individualized study plans, so students can focus on topics that need review.

**Course Length:** Two semesters  
**Materials:** *World History: Our Human Story*  
**Prerequisites:** Student previously took the course or its equivalent but did not receive credit; and teacher/school counselor recommendation

### HST202: Modern World Studies (Core)

Students trace the history of the world from approximately 1870 to the present. They begin with a look back at events leading up to 1914, including the Second Industrial Revolution and the imperialism that accompanied it. Their focus then shifts to the contemporary era, including two world wars, the Great Depression, and global Cold War tensions. Students examine both the staggering problems and astounding accomplishments of the twentieth century, with a focus on political and social history. Students also explore topics in physical and human geography, and investigate issues of concern in the contemporary world. Online lessons help students organize study, explore topics, review in preparation for assessments, and practice skills of historical thinking and analysis. Activities include analyzing primary sources and maps, creating timelines, completing projects and written assignments, and conducting independent research.

**Course Length:** Two semesters  
**Materials:** *The Human Odyssey, Volume 3*  
**Prerequisites:** K12 Middle School Intermediate World History A and B (or equivalents)

### HST203: Modern World Studies (Comprehensive)

In this comprehensive course, students follow the history of the world from approximately 1870 to the present. They begin with a study of events leading up to 1914, including the Second Industrial Revolution and the imperialism that accompanied it. Their focus then shifts to the contemporary era, including two world wars, the Great Depression, and global Cold War tensions. Students examine both the staggering problems and astounding accomplishments of the twentieth century, with a focus on political and social history. Students also explore topics in physical and human geography, and investigate issues of concern in the contemporary world. Online lessons help students organize study, explore topics, review in preparation for assessments, and practice sophisticated skills of historical thinking and analysis. Activities include analyzing primary sources and maps, creating timelines, completing projects and written assignments, and conducting independent research.

**Course Length:** Two semesters  
**Materials:** *The Human Odyssey, Volume 3*  
**Prerequisites:** K12 Middle School Intermediate World History A and B (or equivalents)

### HST204: Honors Modern World Studies

In this advanced course, students investigate the history of the world from approximately 1870 to the present. They begin with an analysis of events leading up to 1914, including the Second Industrial Revolution and the imperialism that accompanied
it. Their focus then shifts to the contemporary era, including two world wars, the Great Depression, and global Cold War tensions. Students undertake an in-depth examination of both the staggering problems and astounding accomplishments of the twentieth century, with a focus on political and social history. Students also explore advanced topics in physical and human geography, and investigate issues of concern in the contemporary world. Activities include analyzing primary sources and maps, creating timelines, completing projects and written assignments, and conducting research. Students complete independent projects each semester.

**Course Length:** Two semesters  
**Materials:** *The Human Odyssey, Volume 3*  
**Prerequisites:** K12 Middle School Intermediate World History A and B (or equivalents), success in previous social studies course, and teacher/school counselor recommendation.

**HST206: Modern World Studies (Credit Recovery)**

Students review the history of the world from approximately 1870 to the present. The course begins with a look back at events leading up to 1914, including the Second Industrial Revolution and imperialism. Their focus then shifts to the contemporary era, including the world wars, the Great Depression, and global Cold War tensions. Students also explore topics in physical and human geography, and investigate issues of concern in the contemporary world. Diagnostic tests assess students’ current knowledge and generate individualized study plans, so students can focus on topics that need review.

**Course Length:** Two semesters  
**Materials:** *The Human Odyssey, Volume 3*  
**Prerequisites:** Student previously took the course or its equivalent but did not receive credit; and teacher/school counselor recommendation

**HST213: Geography (Comprehensive)**

This course explores world geography on a region-by-region basis and covers a broad range of geographical perspectives. Each unit covers one continent or other major geographical region of the world. Units include North America, Central America, South America, Western Europe, Eastern Europe and Russia, East Asia, Southeast Asia and the Pacific Cultures, Africa, India, and the Middle East. Students first learn about each region’s landforms, climate, and population. They then examine that region’s cultural, economic, and political institutions. Each unit is presented in a parallel format to facilitate interregional comparisons and allow students to see the similarities and differences between the regions more clearly.

**Course Length:** Two semesters  
**Materials:** Students will need to download Google Earth  
**Prerequisites:** None

**HST216: Geography (Credit Recovery)**

This course examines a broad range of geographical perspectives covering all of the major regions of the world. Students clearly see the similarities and differences among the regions as they explore the locations and physical characteristics, including absolute and relative location, climate, and significant geographical features. They look at each region from cultural, economic, and political perspectives, and closely examine the
human impact on each region. Students take diagnostic tests that assess their current knowledge and generate individualized study plans, so students can focus on topics that need review. Audio readings and vocabulary lists in English and Spanish support reading comprehension.

**Course Length:** Two semesters  
**Materials:** None  
**Prerequisites:** Student previously took the course or its equivalent but did not receive credit; and teacher/school counselor recommendation

**HST302: U.S. History (Core)**

This course is a full-year survey that provides students with a view of American history from the first migrations of nomadic people to North America to recent events. Readings are drawn from K12’s *The American Odyssey: A History of the United States*. Online lessons help students organize their study, explore topics, review in preparation for assessments, and practice skills of historical thinking and analysis. Activities include analyzing primary sources and maps, creating timelines, completing projects and written assignments, and conducting independent research.

**Course Length:** Two semesters  
**Materials:** *The American Odyssey: A History of the United States*  
**Prerequisites:** K12 Middle School Intermediate World History B or HST102: World History (or equivalents)

**HST303: U.S. History (Comprehensive)**

This course is a full-year survey that provides students with a comprehensive view of American history from the first migrations of nomadic people to North America to recent events. Readings are drawn from K12’s *The American Odyssey: A History of the United States*. Online lessons help students organize their study, explore topics in depth, review in preparation for assessments, and practice skills of historical thinking and analysis. Activities include analyzing primary sources and maps, creating timelines, completing projects and written assignments, and conducting independent research.

**Course Length:** Two semesters  
**Materials:** *The American Odyssey: A History of the United States*  
**Prerequisites:** HST103: World History or HST203: Modern World Studies (or equivalents)

**HST304: Honors U.S. History**

This course is a challenging full-year survey that provides students with a comprehensive view of American history from the first migrations of nomadic people to North America to recent events. Readings are drawn from K12’s *The American Odyssey: A History of the United States*. Online lessons help students organize their study, explore topics in depth, review in preparation for assessments, and practice advanced skills of historical thinking and analysis. Activities include analyzing primary sources and maps, creating timelines, completing projects and written assignments, and conducting independent research. Students complete independent projects each semester.

**Course Length:** Two semesters  
**Materials:** *The American Odyssey: A History of the United States*  
**Prerequisites:** HST103 or HST104: Honors World History: World History, or HST204: Honors Modern World Studies (or equivalents), and teacher/school counselor recommendation
HST306: U.S. History (Credit Recovery)

Students review the rise of European nations and the Age of Exploration; the founding of the American colonies; the American Revolution; and the Declaration of Independence, the Articles of Confederation, and the Constitution. Other topics include the Civil War, migration across the Great Plains, immigration to American shores, and the rise of new ways of manufacturing. Students review the early years of the modern age and the rise of modern cities and our modern political system; the world wars; the Depression and the New Deal; the Cold War; Vietnam; the opposing ideologies of conservatives and liberals; September 11; and the resultant changes in American world and domestic policies. Diagnostic tests assess students’ current knowledge and generate individualized study plans, so students can focus on topics that need review.

**Course Length:** Two semesters  
**Materials:** *The American Odyssey: A History of the United States*  
**Prerequisites:** Student previously took the course or its equivalent but did not receive credit; and teacher/school counselor recommendation

HST312: Modern U.S. History (Core)

This course is a full-year survey that provides students with a view of American history from the industrial revolution of the late nineteenth century to recent events. Readings are drawn from K12’s *The American Odyssey: A History of the United States.* Online lessons help students organize study, explore topics, review in preparation for assessments, and practice skills of historical thinking and analysis. Activities include analyzing primary sources and maps, creating timelines, completing projects and written assignments, and conducting independent research.

**Course Length:** Two semesters  
**Materials:** *The American Odyssey: A History of the United States*  
**Prerequisites:** K12 Middle School American History A and American History B (or equivalents)

HST313: Modern U.S. History (Comprehensive)

This course is a full-year survey that provides students with a comprehensive view of American history from the industrial revolution of the late nineteenth century to recent events. Readings are drawn from K12’s *The American Odyssey: A History of the United States.* Online lessons help students organize study, explore topics in-depth, review in preparation for assessments, and practice skills of historical thinking and analysis. Activities include analyzing primary sources and maps, creating timelines, completing projects and written assignments, and conducting independent research.

**Course Length:** Two semesters  
**Materials:** *The American Odyssey: A History of the United States*  
**Prerequisites:** K12 Middle School American History A and American History B (or equivalents)

HST314: Honors Modern U.S. History

This course is a challenging full-year survey that provides students with a comprehensive view of American history from the industrial revolution of the late nineteenth century to recent events. Readings are drawn from K12’s *The American Odyssey: A History of the United States.* Online lessons help students organize study, explore topics in depth,
HST316: Modern U.S. History (Credit Recovery)

Students review American history from the industrial revolution of the late nineteenth century to recent events. They review how the American system of government works under the United States Constitution; federalism; settlement of the Great American West; issues of immigration and urban life; and the hopes, demands, and challenges African-Americans and women faced as they sought equality. Other topics include the world wars; the American Dream; the Civil Rights movement; Vietnam; Watergate; Reaganomics; the collapse of the Soviet Union; immigration trends; the Clinton years; and the new millennium. Diagnostic tests assess students’ current knowledge and generate individualized study plans, so students can focus on topics that need review.

Course Length: Two semesters  
Materials: *The American Odyssey: A History of the United States*  
Prerequisites: Student previously took the course or its equivalent but did not receive credit; and teacher/school counselor recommendation

HST402: U.S. Government and Politics (Core)

This course uses the perspective of political institutions to explore government history, organization, and functions. Students encounter the political culture of our country from the Declaration of Independence to the present day, gaining insight into the challenges faced by presidents, members of Congress, and other political participants. The course also covers the roles of political parties, interest groups, the media, and the Supreme Court. Students learn to use primary historical documents as evidence in evaluating past events and government functions.

Course Length: One semester  
Materials: None  
Prerequisites: HST302: U.S. History (or equivalent) is recommended, but not required

HST403: U.S. Government and Politics (Comprehensive)

This course studies the history, organization, and functions of the United States government. Beginning with the Declaration of Independence and continuing through to the present day, students explore the relationship between individual Americans and our governing bodies. Students take a close look at the political culture of our country and gain insight into the challenges faced by citizens, elected government officials, political activists, and others. Students also learn about the roles of political parties, interest groups, the media, and the Supreme Court, and discuss their own views on current political issues.
HISTORY and SOCIAL SCIENCES

Course Length: One semester
Materials: None
Prerequisites: HST303: U.S. History (or equivalent) is recommended, but not required

HST406: American Government (Credit Recovery)

This one-semester credit recovery course covers the historical backgrounds, governing principles, and institutions of the government of the United States. The focus is on the principles and beliefs that the United States was founded on and on the structure, functions, and powers of government at the national, state, and local levels. In American Government, students examine the principles of popular sovereignty, separation of powers, checks and balances, republicanism, federalism, and individual rights. They also learn about the roles of individuals and groups in the American political system. Students compare the American system of government with other modern systems and assess the strengths and problems associated with the American version.

Course Length: One semester
Materials: None
Prerequisites: Student previously took the course or its equivalent but did not receive credit; and teacher/school counselor recommendation

HST412: U.S. and Global Economics (Core)

This course in economic principles uses real-world simulations to teach the issues faced by producers, consumers, investors, and taxpayers in the U.S. and around the world. Topics include markets; supply and demand; theories of early economic thinkers; theories of value; money; the role of banks, investment houses, and the Federal Reserve; and other fundamental features of capitalism. A survey of current issues in American and global markets rounds out the course.

Course Length: One semester
Materials: None
Prerequisites: HST402: U.S. Government and Politics (or equivalent) is recommended, but not required

HST413: U.S. and Global Economics (Comprehensive)

In this course on economic principles, students explore choices they face as producers, consumers, investors, and taxpayers. Students apply what they learn to real-world simulation problems. Topics of study include markets from historic and contemporary perspectives; supply and demand; theories of early economic philosophers such as Adam Smith and David Ricardo; theories of value; money (what it is, how it evolved, the role of banks, investment houses, and the Federal Reserve); Keynesian economics; how capitalism functions, focusing on productivity, wages, investment, and growth; issues of capitalism, such as unemployment, inflation, and the national debt; and a survey of markets in such areas as China, Europe, and the Middle East.

Course Length: One semester
Materials: None
Prerequisites: HST403: U.S. Government and Politics (or equivalent) is recommended, but not required
HST416: Economics (Credit Recovery)

In this one-semester credit recovery course, students gain a basic understanding of economics. The course uses real-world economic applications to help students better grasp a range of economic concepts, including macro- and microeconomic concepts. The course covers the American free enterprise system and addresses how this system affects the global economy. Students learn how to think like economists as they study economic principles and different economic systems. They analyze and interpret data to understand the laws of supply and demand. Examining the world of business, money, banking, and finance helps students understand how economics is applied both domestically and globally.

Course Length: One semester
Materials: None
Prerequisites: Student previously took the course or its equivalent but did not receive credit; and teacher/school counselor recommendation

HST500: AP U.S. History

Students explore and analyze the economic, political, and social transformation of the United States since the time of the first European encounters. Students are asked to master not only the wide array of factual information necessary to do well on the AP Exam, but also to practice skills of critical analysis of historical information and documents. Students read primary and secondary source materials and analyze problems presented by historians to gain insight into challenges of interpretation and the ways in which historical events have shaped American society and culture. The content aligns to the sequence of topics recommended by the College Board and to widely used textbooks. This course prepares students for the AP Exam.

Course Length: Two semesters
Prerequisites: Success in previous history course and teacher/school counselor recommendation

HST510: AP U.S. Government and Politics

This course is the equivalent of an introductory college-level course. Students explore the operations and structure of the U.S. government and the behavior of the electorate and politicians. Students gain the analytical perspective necessary to evaluate political data, hypotheses, concepts, opinions, and processes and learn how to gather data about political behavior and develop their own theoretical analysis of American politics. Students also build the skills they need to examine general propositions about government and politics, and to analyze specific relationships between political, social, and economic institutions. Students prepare for the AP® Exam and for further study in political science, law, education, business, and history.

Course Length: One semester
Prerequisites: HST304: Honors U.S. History (or equivalent) and teacher/school counselor recommendation
**HST520: AP Macroeconomics**

This course is the equivalent of an introductory college-level course. Students learn why and how the world economy can change from month to month, how to identify trends in our economy, and how to use those trends to develop performance measures and predictors of economic growth or decline. Students also examine how individuals and institutions are influenced by employment rates, government spending, inflation, taxes, and production. Students prepare for the AP Exam and for further study in business, political science, and history.

**Course Length:** One semester  
**Prerequisites:** MTH304: Honors Algebra II (or equivalent) and teacher/school counselor recommendation

**HST530: AP Microeconomics**

This course is the equivalent of an introductory college-level course. Students explore the behavior of individuals and businesses as they exchange goods and services in the marketplace. Students learn why the same product can cost different amounts at different stores, in different cities, and at different times. Students also learn to spot patterns in economic behavior and learn how to use those patterns to explain buyer and seller behavior under various conditions. Lessons promote an understanding of the nature and function of markets, the role of scarcity and competition, the influence of factors such as interest rates on business decisions, and the role of government in the economy. Students prepare for the AP Exam and for further study in business, history, and political science.

**Course Length:** One semester  
**Prerequisites:** MTH304: Honors Algebra II (or equivalent) and teacher/school counselor recommendation

**HST540: AP Psychology**

This course is the equivalent of an introductory college-level course. Students receive an overview of current psychological research methods and theories. They explore the therapies used by professional counselors and clinical psychologists, and examine the reasons for normal human reactions: how people learn and think, the process of human development and human aggression, altruism, intimacy, and self-reflection. They study core psychological concepts, such as the brain and sensory functions, and learn to gauge human reactions, gather information, and form meaningful syntheses. Students prepare for the AP Exam and for further studies in psychology and life sciences.

**Course Length:** One semester  
**Materials:** Psychology by David G. Myers, 9th edition  
**Prerequisites:** SCI204: Honors Biology (or equivalent) and teacher/school counselor recommendation
HST560: AP World History

This course spans the Neolithic Age to the present in a rigorous academic format organized by chronological periods and viewed through fundamental concepts and course themes. Students analyze the causes and processes of continuity and change across historical periods. Themes include human-environment interaction, cultures, expansion and conflict, political and social structures, and economic systems. In addition to mastering historical content, students cultivate historical thinking skills that involve crafting arguments based on evidence, identifying causation, comparing and supplying context for events and phenomenon, and developing historical interpretation. This course prepares students for the AP World History Exam.

Course Length: Two semesters
Materials: Siddhartha by Herman Hesse; King Leopold's Ghost by Adam Hochschild; King Leopold's Ghost: A Story of Greed, Terror, and Heroism in Colonial Africa by Adam Hochschild (supplied by school or student)
Prerequisites: Success in previous history course and teacher/school counselor recommendation

HST010: Anthropology (Elective)

Anthropologists research the characteristics and origins of the cultural, social, and physical development of humans and consider why some cultures change and others come to an end. In this course, students are introduced to the five main branches of anthropology: physical, cultural, linguistic, social, and archeological. Through instruction and their own investigation and analysis, students explore these topics, considering their relationship to other social sciences such as history, geography, sociology, economics, political science, and psychology. Emulating professional anthropologists, students apply their knowledge and observational skills to the real-life study of cultures in the United States and around the world. The content in this course meets or exceeds the standards of the National Council for the Social Studies (NCSS).

Course Length: One semester
Materials: None
Prerequisites: HST103: World History (or equivalent) recommended as a prerequisite or co-requisite, but not required

HST020: Psychology (Elective)

In this one-semester course, students investigate why human beings think and act the way they do. This is an introductory course that broadly covers several areas of psychology. Instructional material presents theories and current research for students to critically evaluate and understand. Each unit introduces terminology, theories, and research that are critical to the understanding of psychology and includes tutorials and interactive exercises. Students learn how to define and use key terms of psychology and how to apply psychological principles to their own lives. Unit topics include: Methods of Study, Biological Basis for Behavior, Learning and Memory, Development and Individual Differences, and Psychological Disorders.

Course Length: One semester
Materials: None
Prerequisites: None
**HST030: Economics (Elective)**

Students are introduced to the basics of economic principles, and they will learn the importance of understanding different economic systems. They will also investigate how to think like an economist. Students will explore different economic systems, including the American Free Enterprise System, and they will analyze and interpret data to understand the laws of supply and demand. Students will also be presented with economic applications in today’s world. From economics in the world of business, money, banking, and finance, students will see how economics is applied both domestically and globally. Students will also study how the government is involved in establishing economic stability in the American Free Enterprise System as well as the how the U.S. economy has a global impact.

**Course Length:** One semester  
**Materials:** None  
**Prerequisites:** None

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**HST040: Civics (Elective)**

Civics is the study of citizenship and government. This one-semester course provides students with a basic understanding of civic life, politics, and government, and a short history of government’s foundation and development in this country. Students learn how power and responsibility are shared and limited by government, the impact American politics has on world affairs, the place of law in the American constitutional system, and which rights the American government guarantees its citizens. Students also examine how the world is organized politically and how civic participation in the American political system compares to that in other societies around the world today.

**Course Length:** One semester  
**Materials:** None  
**Prerequisites:** None

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**HST050: Sociology (Elective)**

Through this two-semester course, students explore human relationships in society. Instructional materials emphasize culture, social structure, the individual in society, institutions, and social inequality. Unit topics for the first semester include society and culture, what is sociology, the nature of culture, conformity and deviance, social structure, roles, relationships and groups, and social stratification. In the second semester, students learn about social institutions, the family, religion and education, government and economic systems, the individual in society, the early years, adolescence, the adult years, continuity and change, communities and change, social movements and collective behavior, social problems, minorities and discrimination, poverty, crime, and problems of mass society. Students use a textbook for the course.

**Course Length:** Two semesters  
**Materials:** Sociology: Study of Human Relationships, 6th edition, W. LaVerne Thomas; other editions acceptable  
**Prerequisites:** None
OTH031: Archaeology (Elective)

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

Course Length: One semester
Materials: None
Prerequisites: None

HST222: Contemporary World Issues (Elective)

Students analyze governments, economies, peoples, and cultures from around the world in this course. Instruction emphasizes the structures and policies of the United States and how they compare to other systems in the international community. Students apply critical thinking and research skills to examine current events and contemporary issues, including human rights, the strengths and weaknesses of globalization, America's role in the international economy, the severe environmental threats facing many regions around the world today, how religion is often used to facilitate and justify violence, and America's "War on Terror" and its impact on the Middle East and Islamic culture.

Course Length: Two semesters
Materials: None
Prerequisites: None

WLG100: Spanish I

Students begin their introduction to Spanish by focusing on the four key areas of world language study: listening, speaking, reading, and writing. The course represents an ideal blend of language learning pedagogy and online learning. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit. Students should expect to be actively engaged in their own language learning, become familiar with common vocabulary terms and phrases, comprehend a wide range of grammar patterns, participate in simple conversations and respond appropriately to basic conversational prompts, analyze and compare cultural practices, products, and perspectives of various Spanish-speaking countries, and take frequent assessments where their language progression can be monitored. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

Course Length: Two semesters
Materials: A speaker and microphone are necessary; a headset combination is recommended; Vox Everyday Spanish and English Dictionary or equivalent is recommended
Note: Students who have already completed K12 Middle School Spanish 2 should enroll in Spanish II rather than in Spanish I.

**WLG106: Spanish I (Credit Recovery)**

This credit recovery course provides students with instruction in the basics of learning the language of Spanish. Content includes topics such as greetings, time, dates, colors, clothing, numbers, weather, family, houses, sports, food and drink, and school. The course also introduces basic and stem-changing verbs and their formation and use in the present tense. Students also learn about interrogatives, question formation, and adjectives and their form and use, in addition to possessives, prepositions, and other grammatical structures. Finally, students become acquainted with the Spanish-speaking countries of the world and their cultures, and they learn practical information such as restaurant vocabulary and expressions of invitation.

**Course Length:** Two semesters  
**Materials:** A speaker and microphone are necessary; a headset combination is recommended; *Vox Everyday Spanish and English Dictionary* or equivalent is recommended  
**Prerequisites:** Student previously took the course or its equivalent but did not receive credit; and teacher/school counselor recommendation

**WLG200: Spanish II**

Students continue their study of Spanish by further expanding their knowledge of key vocabulary topics and grammar concepts. Students not only begin to comprehend listening and reading passages more fully, but they also start to express themselves more meaningfully in both speaking and writing. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit. Students should expect to be actively engaged in their own language learning, understand common vocabulary terms and phrases, use a wide range of grammar patterns in their speaking and writing, participate in conversations and respond appropriately to conversational prompts, analyze and compare cultural practices, products, and perspectives of various Spanish-speaking countries, and take frequent assessments where their language progression can be monitored. By Semester 2, the course is conducted almost entirely in Spanish. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

**Course Length:** Two semesters  
**Materials:** A speaker and microphone are necessary; a headset combination is recommended; *Vox Everyday Spanish and English Dictionary* or equivalent is recommended  
**Prerequisites:** WLG100: Spanish I; K12 Middle School Spanish 1 and 2 (or equivalents)

**WLG300: Spanish III**

Students further deepen their understanding of Spanish by focusing on the three modes of communication: interpretive, interpersonal, and presentational. Each unit consists of a variety of activities which teach the students how to understand more difficult written and spoken passages, to communicate with others through informal
speaking and writing interactions, and to express their thoughts and opinions in more formal spoken and written contexts. Students should expect to be actively engaged in their own language learning, use correct vocabulary terms and phrases naturally, incorporate a wide range of grammar concepts consistently and correctly while speaking and writing, participate in conversations covering a wide range of topics and respond appropriately to conversational prompts, analyze and compare cultural practices, products, and perspectives of various Spanish-speaking countries, read and analyze important pieces of Hispanic literature, and take frequent assessments where their language progression can be monitored. The course is conducted almost entirely in Spanish. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

Course Length: Two semesters
Materials: A speaker and microphone are necessary; a headset combination is recommended; Vox Everyday Spanish and English Dictionary or equivalent is recommended
Prerequisites: WLG200: Spanish II (or equivalent)

WLG400: Spanish IV

Fourth-year Spanish expands on the foundation of Spanish grammar and vocabulary that students acquired in the first three courses. As with all the earlier offerings, this culminating-level Spanish language course conforms to the standards of the American Council on the Teaching of Foreign Languages (ACTFL). Students continue to sharpen their speaking, listening, reading and writing skills while also learning to express themselves on topics relevant to Spanish culture. The two-semester course is divided into ten units whose themes include people, achievements, wishes and desires, activities, celebrations, possibilities, the past, the arts, current events, and wrap up and review.

Course Length: Two semesters
Materials: A speaker and microphone are necessary; a headset combination is recommended; Vox Everyday Spanish and English Dictionary or equivalent is recommended
Prerequisites: WLG300: Spanish III (or equivalent)

WLG500: AP Spanish Language and Culture

The AP Spanish Language and Culture course is an advanced language course in which students acquire proficiencies that expand their cognitive, analytical and communicative skills. The AP Spanish Language and Culture course prepares students for the AP Spanish Language and Culture exam. It uses as its foundation the three modes of communication (Interpersonal, Interpretive and Presentational) as defined in the Standards for Foreign Language Learning in the 21st Century.

The course is designed as an immersion experience and is conducted almost exclusively in Spanish. In addition, all student work, practices, projects, participation, and assessments are in Spanish.

The course teaches language structures in context and focuses on the development of fluency to convey meaning. Students explore culture in both contemporary and historical contexts to develop an awareness and appreciation of cultural products, practices, and perspectives. In addition, students participate in a forum where they are able to share their own opinions and comments about various topics and comment on other students’ posts. The course also makes great use of the Internet for updated and current material.
Course Length: Two semesters
Materials: A speaker and microphone are necessary; a headset combination is recommended; Spanish/English dictionary
Prerequisites: Strong success in WLG300: Spanish III, or success in WLG400: Spanish IV (or equivalents), and teacher/school counselor recommendation

WLG110: French I

Students begin their introduction to French by focusing on the four key areas of world language study: listening, speaking, reading, and writing. The course represents an ideal blend of language learning pedagogy and online learning. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit. Students should expect to be actively engaged in their own language learning, become familiar with common vocabulary terms and phrases, comprehend a wide range of grammar patterns, participate in simple conversations and respond appropriately to basic conversational prompts, analyze and compare cultural practices, products, and perspectives of various French-speaking countries, and take frequent assessments where their language progression can be monitored. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

Course Length: Two semesters
Materials: A speaker and microphone are necessary; a headset combination is recommended; Larousse Student French-English/English-French Dictionary or equivalent is recommended
Prerequisites: None

Note: Students who have already completed K-12 Middle School French 2 should enroll in French II rather than in French I.

WLG210: French II

Students continue their study of French by further expanding their knowledge of key vocabulary topics and grammar concepts. Students not only begin to comprehend listening and reading passages more fully, but they also start to express themselves more meaningfully in both speaking and writing. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit. Students should expect to be actively engaged in their own language learning, understand common vocabulary terms and phrases, use a wide range of grammar patterns in their speaking and writing, participate in conversations and respond appropriately to conversational prompts, analyze and compare cultural practices, products, and perspectives of various French-speaking countries, and take frequent assessments where their language progression can be monitored. By semester 2, the course is conducted almost entirely in French. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).
**WLG310: French III**

Students further deepen their understanding of French by focusing on the three modes of communication: interpretive, interpersonal, and presentational. Each unit consists of a variety of activities which teach the students how to understand more difficult written and spoken passages, to communicate with others through informal speaking and writing interactions, and to express their thoughts and opinions in both formal and informal spoken and written contexts. Students should expect to be actively engaged in their own language learning, use correct vocabulary terms and phrases naturally, incorporate a wide range of grammar concepts consistently and correctly while speaking and writing, participate in conversations covering a wide range of topics, respond appropriately to conversational prompts, analyze and compare cultural practices, products, and perspectives of various French-speaking countries, read and analyze important pieces of literature, and take frequent assessments where their language progression can be monitored. The course is conducted almost entirely in French. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

**WLG410: French IV**

Students complete their high school French language education with this two-semester course that, like all of its predecessors, conforms to the national standards of the ACTFL. The instructional material in French IV enables students to use the conditional and subjunctive tenses, and talk about the past with increasing ease, distinguishing which tense to use and when. It also helps students hone their listening skills to enhance their understanding of native speech patterns on familiar topics. Students expand their knowledge of French-speaking countries’ culture, history, and geography and learn about francophone contributions in the arts. Students must pass French III as a prerequisite.

**WLG510: AP French Language and Culture**

The AP French Language and Culture course is an advanced language course in which students are directly prepared for the AP French Language and Culture Exam. It uses as its foundation the three modes of communication: interpersonal, interpretive and...
presentational. The course is conducted almost exclusively in French. The course teaches language structures in context and focuses on the development of fluency to convey meaning. Students explore culture in both contemporary and historical contexts to develop an awareness and appreciation of cultural products, practices, and perspectives. Students should expect to listen to, read, and understand a wide-variety of authentic French-language materials and sources, demonstrate proficiency in interpersonal, interpretive, and presentational communication using French, gain knowledge and understanding of the cultures of the Francophone world, use French to connect with other disciplines and expand knowledge in a wide-variety of contexts, develop insight into the nature of the French language and its culture, and use French to participate in communities at home and around the world. The AP French Language course is a college level course. The intensity, quality, and amount of course material can be compared to that of a third-year college course.

Course Length: Two semesters
Materials: A speaker and microphone are necessary; a headset combination is recommended; French/English dictionary
Prerequisites: Strong success in WLG310: French III, or success in WLG410: French IV (or equivalents), and teacher/school counselor recommendation

WLG120: German I

Students begin their introduction to German by focusing on the four key areas of world language study: listening, speaking, reading, and writing. The course represents an ideal blend of language learning pedagogy and online learning. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit. Students should expect to be actively engaged in their own language learning, become familiar with common vocabulary terms and phrases, comprehend a wide range of grammar patterns, participate in simple conversations, respond appropriately to basic conversational prompts, analyze and compare cultural practices, products, and perspectives of various German-speaking countries, and take frequent assessments where their language progression can be monitored. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

Course Length: Two semesters
Materials: A speaker and microphone are necessary; a headset combination is recommended; Larousse German Dictionary or equivalent is recommended
Prerequisites: None

Note: Students who have already succeeded in K12 Middle School German 2 should enroll in German II rather than in German I.

WLG220: German II

Students continue their study of German by further expanding their knowledge of key vocabulary topics and grammar concepts. Students not only begin to comprehend listening and reading passages more fully, but they also start to express themselves more meaningfully in both speaking and writing. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities, speaking
and writing activities, multimedia cultural presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit. Students should expect to be actively engaged in their own language learning, understand common vocabulary terms and phrases, use a wide range of grammar patterns in their speaking and writing, participate in conversations, respond appropriately to conversational prompts, analyze and compare cultural practices, products, and perspectives of various German-speaking countries, and take frequent assessments where their language progression can be monitored. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

**Course Length:** Two semesters  
**Materials:** A speaker and microphone are necessary; a headset combination is recommended; *Larousse German Dictionary* or equivalent is recommended  
**Prerequisites:** WLG120: German I, K² Middle School German 1 and 2 (or equivalents)

### WLG320: German III

This course expands the scope of concepts and information that students mastered in the German I and II courses and aligns with national ACTFL standards. Students learn increasingly complex grammatical constructions, such as present, imperfect, perfect, and future tenses; reflexive and modal verbs; prepositions; conjunctions; relative pronouns; and adjective endings. Unit themes in this two-semester course include vacations, travel, leisure time, healthy living, body parts and ailments, family members, rights and responsibilities, household chores, university study, military service, personal relationships, the importance of appearance, emotions, fairy tales, and animals. Unit activities blend different forms of communication and culture.

**Course Length:** Two semesters  
**Materials:** A speaker and microphone are necessary; a headset combination is recommended; *Larousse German Dictionary* or equivalent is recommended  
**Prerequisites:** WLG220: German II (or equivalent)

### WLG420: German IV

German IV builds on the foundation of the first three courses. Students continue to sharpen their speaking, listening, reading, and writing skills while also learning to express themselves on topics relevant to German culture. Authentic texts, current culture, and literature from Germany, Austria, and Switzerland all form part of the instructional material for this course. Each unit focuses on a particular region or city and includes such themes as culture, tourism, and current events. These units cover topics such as contemporary and classical music, expressing opinion, German history, transportation, family weekend travel, shopping, free-time activities, technology, multiculturalism, education, and careers.

**Course Length:** Two semesters  
**Materials:** A speaker and microphone are necessary; a headset combination is recommended; *Larousse German Dictionary* or equivalent is recommended  
**Prerequisites:** WLG320: German III (or equivalent)
WLG130: Latin I

Since mastering a classical language presents different challenges from learning a spoken world language, students learn Latin through ancient, time-honored, classical language approaches which include repetition, parsing, written composition, and listening exercises. These techniques, combined with a modern multimedia approach to learning grammar, syntax, and vocabulary, provide students with a strong foundation for learning Latin. Each unit consists of a new vocabulary theme and grammar concept, reading comprehension activities, writing activities, multimedia culture, history, and mythology presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on engaging with authentic classical Latin through weekly encounters with ancient passages from such prestigious authors as Virgil, Ovid, and Lucretius. The curriculum concurs with the Cambridge school of Latin; therefore, students will learn ancient high classical styles of pronunciation and grammar in lieu of generally less sophisticated medieval styles, making it possible for students to comprehend the most Latin from the widest range of time periods. Students should expect to be actively engaged in their own language learning, become familiar with common vocabulary terms and phrases, comprehend a wide range of grammar patterns, understand and analyze the cultural and historical contexts of the ancient sources they study, and take frequent assessments where their language progression can be monitored. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

Note: Students who have already completed K12 Middle School Latin 2 should enroll in Latin II rather than in Latin I.

Course Length: Two semesters

Materials: A speaker and microphone are necessary; a headset combination is recommended; Bantam New College Latin & English Dictionary or equivalent is recommended

Prerequisites: None

WLG230: Latin II

Students continue with their study of Latin through ancient, time-honored, classical language approaches which include repetition, parsing, written composition, and listening exercises. These techniques, combined with a modern multimedia approach to learning grammar, syntax, and vocabulary, prepare students for a deeper study of Latin. Each unit consists of a new vocabulary theme and grammar concept, reading comprehension activities, writing activities, multimedia culture, history, and mythology presentations, and interactive activities and practices which reinforce vocabulary and grammar. The emphasis is on reading Latin through engaging with myths from the ancient world which are presented in Latin. The curriculum concurs with the Cambridge school of Latin; therefore, students will learn ancient high classical styles of pronunciation and grammar in lieu of generally less sophisticated medieval styles, making it possible for students to comprehend the most Latin from the widest range of time periods. Students should expect to be actively engaged in their own language learning, understand and use common vocabulary terms and phrases, comprehend a wide range of grammar patterns, understand and analyze the cultural and historical contexts of the ancient sources they study, and take frequent assessments where their language progression can be monitored. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).
Course Length: Two semesters  
Materials: A speaker and microphone are necessary; a headset combination is recommended; *Bantam New College Latin & English Dictionary* or equivalent is recommended  
Prerequisites: WLG130: Latin I (or equivalent)

**WLG140: Chinese I**

Students begin their introduction to Chinese by focusing on the four key areas of world language study: listening, speaking, reading, and writing. The course represents an ideal blend of language learning pedagogy and online learning. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit. Both Chinese characters and pinyin are presented together throughout the course and specific character practices are introduced after the first quarter. Students should expect to be actively engaged in their own language learning, become familiar with common vocabulary terms and phrases, comprehend a wide range of grammar patterns, participate in simple conversations and respond appropriately to basic conversational prompts, analyze and compare cultural practices, products, and perspectives of various Chinese-speaking regions, and take frequent assessments where their language progression can be monitored. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages). Note: Students who have already completed K12 Middle School Chinese 2 should enroll in Chinese II rather than in Chinese I.

Course Length: Two semesters  
Materials: A speaker and microphone are necessary; a headset combination is recommended; *Oxford Beginner’s Chinese Dictionary* or equivalent is recommended  
Prerequisites: None

**WLG240: Chinese II**

Students continue their study of Chinese by further expanding their knowledge of key vocabulary topics and grammar concepts. Students not only begin to comprehend listening and reading passages more fully, but they also start to express themselves more meaningfully in both speaking and writing. Each unit consists of a new vocabulary theme and grammar concept, reading and listening comprehension activities, speaking and writing activities, multimedia cultural presentations, and interactive activities and practices which reinforce vocabulary and grammar. There is a strong emphasis on providing context and conversational examples for the language concepts presented in each unit. Character recognition and practice are a key focus of the course and students are expected to learn several characters each unit. However, pinyin is still presented with characters throughout the course to aid in listening and reading comprehension. Students should expect to be actively engaged in their own language learning, understand common vocabulary terms and phrases, use a wide range of grammar patterns in their speaking and writing, participate in conversations and respond appropriately to conversational prompts, analyze and compare cultural practices, products, and perspectives of various Chinese-speaking regions, and take frequent assessments where their language progression can be monitored. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).
WLG150: Japanese I

Students become familiar with the fundamental concepts and constructions of the Japanese language as well as the rich and ancient world of Japanese culture in this two-semester course. Japanese I has been designed to meet the standards of the American Council on the Teaching of Foreign Languages (ACTFL). Unit topics consist of the alphabet and numbers; greetings; introductions; the calendar (days, months, and seasons); weather; time; colors; familiar objects and places; family; food; pastimes; and school objects and routine. Course strategies include warm-up activities, vocabulary study, reading, threaded discussions, multimedia presentations, self-checks, practice activities and games, oral and written assignments, projects, quizzes, and exams.

WLG250: Japanese II

In Japanese II, course content blends different forms of communication and culture via unit activities to ensure that students meet all standards of the American Council on the Teaching of Foreign Languages (ACTFL). These standards call for a focus on successful oral and written communication as well as a thorough grounding in Japanese culture. Unit themes for both semesters cover a broad range of useful everyday subjects, including daily routine, animals, entertainment, body parts, rooms and furniture, shopping and clothing, meals, sports and recreation, and transportation. Students must successfully complete Japanese I in order to enroll in this course.

ART010: Fine Art (Elective)

This course combines art history, appreciation, and analysis, while engaging students in hands-on creative projects. Lessons introduce major periods and movements in art history while focusing on masterworks and the intellectual, technical, and creative processes behind those works. Studio lessons provide opportunities for drawing, painting, sculpting, and other creative endeavors.

ART010: Fine Art (Elective)

This course combines art history, appreciation, and analysis, while engaging students in hands-on creative projects. Lessons introduce major periods and movements in art history while focusing on masterworks and the intellectual, technical, and creative processes behind those works. Studio lessons provide opportunities for drawing, painting, sculpting, and other creative endeavors.

Course Length: Two semesters
Materials: One package of white clay; one set of acrylic paint; one set of round paintbrushes. It is recommended, but not required, that students have some means of capturing an image of their studio art projects with a digital camera, webcam, or other imaging device.
Prerequisites: HST103: World History (or equivalent) is recommended as a prerequisite or co-requisite, but not required

**ART020: Music Appreciation (Elective)**

This course introduces students to the history, theory, and genres of music. The first semester covers basic music theory concepts as well as early musical forms, classical music, patriotic and nationalistic music, and twentieth century music. The second semester presents modern traditions, including American jazz, gospel, folk, soul, blues, Latin rhythms, rock and roll, and hip hop. The course explores the history of music, from the surviving examples of rudimentary musical forms through to contemporary pieces from around the world. The first semester covers early musical forms, classical music, and American jazz. The second semester presents modern traditions, including gospel, folk, soul, blues, Latin rhythms, rock and roll, and hip hop. The course explores the relationship between music and social movements and reveals how the emergent global society and the prominence of the Internet are making musical forms more accessible worldwide.

To comply with certain state standards for the arts, a student “performance practicum” is required for full credit each semester. The performance practicum requirement can be met through participation in supervised instrumental or vocal lessons, church or community choirs, community musical performances, or any other structured program that meets at regular intervals and provides opportunities for students to build vocal and/or instrumental skills. Parents or guardians will be required to present their proposed practicum to the students’ teachers for approval, and validate their children’s regular participation in the chosen performance practicum.

**Course Length:** Two semesters  
**Materials:** Finale Notepad music notation software  
**Prerequisites:** None

**BUS030: Personal Finance (Elective)**

In this introductory finance course, students learn basic principles of economics and best practices for managing their own finances. Students learn core skills in creating budgets, developing long-term financial plans to meet their goals, and making responsible choices about income and expenses. They gain a deeper understanding of capitalism and other systems so they can better understand their role in the economy of society. Students are inspired by experiences of finance professionals and stories of everyday people and the choices they make to manage their money.

**Course Length:** One semester  
**Materials:** None  
**Prerequisites:** None

**MTH332: Integrated Math (Elective)**

This course helps students develop mathematical skills that enable them to solve problems and use reason and logic in math courses. Integrated Math gives the main overview of the many mathematical disciplines; topics include number sense, operations, algebraic sense, introduction to probability, geometric figures, geometric movement, measurement, and a more in-depth look at probability (including permutations and combination). Content is expressed in everyday mathematical
language and notations to help students learn to apply the skills in a variety of applications. Instruction is supplemented with self-check quizzes, audio tutorials, web quests, and interactive games that engage students in the content they are learning.

Course Length: Two semesters
Materials: None
Prerequisites: Algebra I

ENG010: Journalism (Elective)

Students are introduced to the historical importance of journalism in America. They study the basic principles of print and online journalism as they examine the role of printed news media in our society. They learn investigative skills, responsible reporting, and journalistic writing techniques as they read, respond to, and write their own news and feature articles. Students conduct interviews, research, write, and design their own publications.

Course Length: One semester
Materials: None
Prerequisites: None

ENG020: Public Speaking (Elective)

Students are introduced to public speaking as an important component of their academic, work, and social lives. They study public speaking occasions and develop skills as fair and critical listeners, or consumers, of spoken information and persuasion. Students study types of speeches (informative, persuasive, dramatic, and special occasion), read and listen to models of speeches, and prepare and present their own speeches to diverse audiences. Students learn to choose speaking topics and adapt them for specific audiences, to research and support their ideas, and to benefit from listener feedback. They study how to incorporate well-designed visual and multimedia aids in presentations and how to maintain a credible presence in the digital world. Students also learn about the ethics of public speaking and about techniques for managing communication anxiety.

Course Length: One semester
Materials: Student must provide a webcam and recording software
Prerequisites: None

OTH036: Gothic Literature (Elective)

Since the eighteenth century, Gothic tales have influenced fiction writers and fascinated readers. This course focuses on the major themes found in Gothic literature and demonstrates how the core writing drivers produce a suspenseful environment for readers. It presents some of the recurring themes and elements found in the genre. As they complete the course, students gain an understanding of and an appreciation for the complex nature of Gothic literature.

Course Length: One semester
Materials: None
Prerequisites: None
**HST010: Anthropology (Elective)**

Anthropologists research the characteristics and origins of the cultural, social, and physical development of humans and consider why some cultures change and others come to an end. In this course, students are introduced to the five main branches of anthropology: physical, cultural, linguistic, social, and archeological. Through instruction and their own investigation and analysis, students explore these topics, considering their relationship to other social sciences such as history, geography, sociology, economics, political science, and psychology. Emulating professional anthropologists, students apply their knowledge and observational skills to the real-life study of cultures in the United States and around the world. The content in this course meets or exceeds the standards of the National Council for the Social Studies (NCSS).

**Course Length:** One semester  
**Materials:** None  
**Prerequisites:** HST103: World History (or equivalent) recommended as a prerequisite or co-requisite, but not required

**HST020: Psychology (Elective)**

In this course, students investigate why human beings think and act the way they do. This is an introductory course that broadly covers several areas of psychology. Instructional material presents theories and current research for students to critically evaluate and understand. Each unit introduces terminology, theories, and research that are critical to the understanding of psychology and includes tutorials and interactive exercises. Students learn how to define and use key terms of psychology and how to apply psychological principles to their own lives. Unit topics in this one-semester course include methods of study, biological basis for behavior, learning and memory, development and individual differences, and psychological disorders.

**Course Length:** One semester  
**Materials:** None  
**Prerequisites:** None

**HST030: Economics (Elective)**

Students are introduced to the basics of economic principles, and they will learn the importance of understanding different economic systems. They will also investigate how to think like an economist. Students will explore different economic systems, including the American Free Enterprise System, and they will analyze and interpret data to understand the laws of supply and demand. Students will also be presented with economic applications in today’s world. From economics in the world of business, money, banking, and finance, students will see how economics is applied both domestically and globally. Students will also study how the government is involved in establishing economic stability in the American Free Enterprise System as well as the how the U.S. economy has a global impact.

**Course Length:** One semester  
**Materials:** None  
**Prerequisites:** None
HST040: Civics (Elective)
Civics is the study of citizenship and government. This one-semester course provides students with a basic understanding of civic life, politics, and government, and a short history of government’s foundation and development in this country. Students learn how power and responsibility are shared and limited by government, the impact American politics has on world affairs, the place of law in the American constitutional system, and which rights the American government guarantees its citizens. Students also examine how the world is organized politically and how civic participation in the American political system compares to that in other societies around the world today.

Course Length: One semester
Materials: None
Prerequisites: None

HST050: Sociology (Elective)
Through this two-semester course, students explore human relationships in society. Instructional materials emphasize culture, social structure, the individual in society, institutions, and social inequality. Unit topics for the first semester include society and culture, what is sociology, the nature of culture, conformity and deviance, social structure, roles, relationships and groups, and social stratification. In the second semester, students learn about social institutions, the family, religion and education, government and economic systems, the individual in society, the early years, adolescence, the adult years, continuity and change, communities and change, social movements and collective behavior, social problems, minorities and discrimination, poverty, crime, and problems of mass society. Students use a textbook for the course.

Course Length: Two semesters
Prerequisites: None

OTH031: Archaeology (Elective)
George Santayana once said, “Those who cannot remember the past are condemned to repeat it.” The field of archaeology helps us better understand the events and societies of the past that have helped shape our modern world. This course focuses on the techniques, methods, and theories that guide the study of the past. Students learn how archaeological research is conducted and interpreted, as well as how artifacts are located and preserved. Finally, students learn about the relationship of material items to culture and what we can learn about past societies from these items.

Course Length: One semester
Materials: None
Prerequisites: None

HST222: Contemporary World Issues (Elective)
Students analyze governments, economies, peoples, and cultures from around the world in this course. Instruction emphasizes the structures and policies of the United States and how they compare to other systems in the international community. Students apply critical thinking and research skills to examine current events and contemporary issues, including human rights, the strengths and weaknesses of globalization, America’s role in
the international economy, the severe environmental threats facing many regions around the world today, how religion is often used to facilitate and justify violence, and America’s “War on Terror” and its impact on the Middle East and Islamic culture.

**Course Length:** Two semesters

**Materials:** None

**Prerequisites:** None

### PRJ010: Service Learning (Elective)

This project may be used in a variety of ways—as a stand-alone project, in conjunction with another course, or as a foundation around which to base a one-semester course. An introductory unit presents instruction on the nature of service learning. Students are taught how to identify community needs, select projects that are meaningful to themselves, apply practical skills, reflect on their learning experience, and behave responsibly in a service setting. Students then move on to design and conduct service learning experiences of their own, according to the requirements of their projects. Documents to support teachers in guiding students through the project are included.

**Project Length:** Varies

**Materials:** None

**Prerequisites:** None

### SCI010: Environmental Science (Elective)

This course surveys key topic areas, including the application of scientific process to environmental analysis; ecology; energy flow; ecological structures; earth systems; and atmospheric, land, and water science. Topics also include the management of natural resources and analysis of private and governmental decisions involving the environment. Students explore actual case studies and conduct five hands-on, unit-long research activities, learning that political and private decisions about the environment and the use of resources require accurate application of scientific processes, including proper data collection and responsible conclusions.

**Course Length:** One semester

**Materials:** None

**Prerequisites:** Success in previous high school science course and teacher/school counselor recommendation

### OTH032: Astronomy (Elective)

Why do stars twinkle? Is it possible to fall into a black hole? Will the sun ever stop shining? Since the first glimpse of the night sky, humans have been fascinated with the stars, planets, and universe. This course introduces students to the study of astronomy, including its history and development, basic scientific laws of motion and gravity, the concepts of modern astronomy, and the methods used by astronomers to learn more about the universe. Additional topics include the solar system, the Milky Way and other galaxies, and the sun and stars. Using online tools, students examine the life cycle of stars, the properties of planets, and the exploration of space.

**Course Length:** One semester

**Materials:** None

**Prerequisites:** None
OTH010: Skills for Health (Elective)

This course focuses on important skills and knowledge in nutrition; physical activity; the dangers of substance use and abuse; injury prevention and safety; growth and development; and personal health, environmental conservation, and community health resources. The curriculum is designed around topics and situations that engage student discussion and motivate students to analyze internal and external influences on their health-related decisions. The course helps students build the skills they need to protect, enhance, and promote their own health and the health of others.

Course Length: One semester
Materials: None
Prerequisites: None

OTH016: Health (Credit Recovery)

This one-semester credit recovery course provides students with information that will help them live a more healthy and productive life. The emphasis is on making healthy personal decisions and in getting the information needed to make those choices. The course addresses both mental and physical health. Students learn about nutrition, including food guidelines and types of food; eating disorders are also covered. Students learn about first aid and CPR, substance abuse, and human sexuality. The course also covers consumer health resources, including government resources, nonprofit resources, and health insurance. Students learn how technology is influencing health care, and they examine the benefits of frequent physical exercise.

Course Length: One semester
Materials: None
Prerequisites: Student previously took the course or its equivalent but did not receive credit; and teacher/school counselor recommendation

OTH080: Nutrition and Wellness (Elective)

This one-semester elective course provides students with an overview of good nutrition principles that are necessary for physical and mental wellness and a long, healthy life. Instructional materials include discussions of digestion, basic nutrients, weight management, sports and fitness, and life-span nutrition. The Nutrition and Wellness course emphasizes an understanding of today’s food and eating trends and gives students the capacity to intelligently evaluate all available sources of nutrition information and make informed decisions. The course is organized in six units: Course Introduction; Wellness and Food Choices in Today’s World; Digestion and Major Nutrients; Body Size and Weight Management; Physical Fitness, Sports Nutrition, and Stress; and Life Cycle Nutrition.

Course Length: One semester
Materials: None
Prerequisites: None

OTH020: Physical Education (Elective)

This pass/fail course combines online instructional guidance with student participation in weekly cardiovascular, aerobic, muscle-toning, and other activities. Students fulfill course requirements by keeping weekly logs of their physical activity. The course promotes the
value of lifetime physical activity and includes instruction in injury prevention, nutrition and diet, and stress management. Students may enroll in the course for either one or two semesters, and repeat for further semesters as needed to fulfill state requirements.

**Course Length:** One semester (or more)
**Materials:** None
**Prerequisites:** None

**OTH026: Physical Education (Credit Recovery)**

Through this one-semester credit recovery course, students learn a wide variety of fitness concepts that they will be able to use in their everyday life. The course addresses the fundamentals of physical fitness, including goal setting and target heart rate. Students learn about how their body works by studying static and dynamic balance, linear and rotary motion, anatomy, and biomechanics. They are introduced to a variety of lifetime activities, including tennis, golf, Frisbee, and orienteering. They also learn about activities to promote cardiorespiratory fitness, including kickboxing, hip hop dance, fitness walking, and cycling. Pilates, yoga, and breathing exercises that help promote physical and emotional wellness are addressed as well.

**Course Length:** One semester
**Materials:** None
**Prerequisites:** Student previously took the course or its equivalent but did not receive credit; and teacher/school counselor recommendation

**OTH070: Driver Safety (Elective)**

Driver Safety can provide a foundation for a lifetime of responsible driving. Instructional material in this course emphasizes the mechanics of driving operations and the rule of safe driving. Among other topics, students learn how to assess and manage risk, handle social pressures, understand signs and signals, comprehend the rules of the road, and start, steer, stop, turn, and park a car. They also learn how to contend with driving environments, including light and weather conditions, share the roadway, respond to an emergency, buy and maintain a car, plan a trip, take a state driving test, and partner with their parents or guardians to promote safety on the road. Students use a textbook for this one-semester course. This course may not satisfy the state department of transportation’s or motor vehicle’s requirements for learners permit issuance. Please consult local requirements prior to enrolling.

**Course Length:** One semester
**Materials:** Responsible Driving
**Prerequisites:** None

**OTH090: Life Skills (Elective)**

This one-semester elective is designed to increase students’ knowledge of and ability in using the skills necessary for everyday living. Life Skills emphasizes defining personal values, goal-setting and planning, and solving problems. Instructional material focuses on dealing with media and peer pressure, communication and relationships, working with others, avoiding and/or resolving conflict, decision making, wellness and personal safety, aspects of good citizenship, environmental awareness, and how students can contribute to their own community. The course is organized in six units, which cover the following topics: Course Introduction, Thinking About Yourself, Thinking For Yourself, Taking Care of Yourself, Caring or Your Relationships, and Caring About Your World.
OTH040: Reaching Your Academic Potential (Elective)

Students learn essential academic skills within the context of their learning style, individual learning environment, and long-term goals. This course helps students develop habits for more successful reading, writing, studying, communication, collaboration, time management, and concentration. It also provides insights into how the brain works when they are learning, and ways to maximize its potential.

Course Length: One semester
Materials: None
Prerequisites: None

OTH050: Achieving Your Career and College Goals (Elective)

Students explore their options for life after high school and implement plans to achieve their goals. They identify their aptitudes, skills, and preferences, and explore a wide range of potential careers. They investigate the training and education required for the career of their choice, and create a plan to be sure that their work in high school is preparing them for the next step. They also receive practical experience in essential skills such as searching and applying for college, securing financial aid, writing a resume and cover letter, and interviewing for a job. This course is geared toward 11th and 12th graders.

Course Length: One semester
Materials: None
Prerequisites: None

OTH060: Family and Consumer Science (Elective)

In this course, students develop skills and knowledge to help them transition into adult roles within the family. They learn to make wise consumer choices, prepare nutritious meals, contribute effectively as part of a team, manage a household budget, and balance roles of work and family. They gain an appreciation for the responsibilities of family members throughout the life-span and the contributions to the well-being of the family and the community.

Course Length: One semester
Materials: None
Prerequisites: None

BUS040: Introduction to Entrepreneurship I (Elective)

In this introductory business course, students learn the basics of planning and launching their own successful business. Whether they want to start their own money-making business or create a non-profit to help others, this course helps students develop the core skills they need to be successful. They learn how to come up with new business
ideas, attract investors, market their business, and manage expenses. Students hear inspirational stories of teen entrepreneurs who have turned their ideas into reality, and then they plan and execute their own business.

Course Length: One semester
Materials: None
Prerequisites: None

**BUS050: Introduction to Entrepreneurship II (Elective)**

Students build on the business concepts they learned in Introduction to Entrepreneurship I. They learn about sales methods, financing and credit, accounting, pricing, and government regulations. They refine their technology and communication skills in speaking, writing, networking, negotiating, and listening. They enhance their employability skills by preparing job-related documents, developing interviewing skills, and learning about hiring, firing, and managing employees. Students develop a complete business plan and a presentation for potential investors.

Course Length: One semester
Materials: None
Prerequisites: BUS040: Introduction to Entrepreneurship I (or equivalent)

**BUS060: Introduction to Marketing I (Elective)**

Students find out what it takes to market a product or service in today’s fast-paced business environment. They learn the fundamentals of marketing using real-world business examples. They learn about buyer behavior, marketing research principles, demand analysis, distribution, financing, pricing, and product management.

Course Length: One semester
Materials: None
Prerequisites: None

**BUS070: Introduction to Marketing II (Elective)**

Students build on the skills and concepts learned in Introduction to Marketing I to develop a basic understanding of marketing principles and techniques. By the end of the course, they will have developed their own comprehensive marketing plan for a new business.

Course Length: One semester
Materials: None
Prerequisites: BUS060: Introduction to Marketing I (or equivalent)

**BUS090: Sports and Entertainment Marketing (Elective)**

Students who have wished to play sports professionally or who have dreamed of becoming an agent for a celebrity entertainer have an interest in sports and entertainment marketing. Although this particular form of marketing bears some resemblance to traditional marketing, there are many differences as well—including a lot more glitz and glamour! In this course, students have the opportunity to explore basic marketing principles and delve deeper into the multibillion-dollar sports and entertainment marketing industry. Students learn how professional athletes, sports teams, and well-known entertainers are marketed as commodities and how some of
them become billionaires as a result. For students who have ever wondered about how things work behind the scenes of a major sporting event such as the Super Bowl or even entertained the idea of playing a role in such an event, this course introduces the fundamentals of such a career.

**Course Length:** One semester  
**Materials:** None  
**Prerequisites:** None

**OTH037: Hospitality and Tourism (Elective)**

With greater disposable income and more opportunities for business travel, people are traversing the globe in growing numbers. As a result, the hospitality and tourism industry is one of the fastest growing in the world. This course introduces the hospitality and tourism industry, including hotel and restaurant management, cruise ships, spas, resorts, theme parks, and other areas. Student learn about key hospitality issues, the development and management of tourist locations, event planning, marketing, and environmental issues related to leisure and travel. The course also examines some current and future trends in the field.

**Course Length:** One semester  
**Materials:** None  
**Prerequisites:** None

**MTH342: Accounting (Elective)**

In this introductory course, students gain a foundation in the skills needed for college accounting courses, office work, and managing their own small businesses. They also build an appreciation for the role of accounting in managing a profitable business. The course provides an overview of the three forms of accounting: financial, cost, and management accounting. Instructional material covers the basic concept conventions and rules of the double entry system—and includes techniques for analyzing ratios from a balance sheet. The concepts of ethics, integrity, confidentiality, and rigor are woven through all the units.

**Course Length:** Two semesters  
**Materials:** None  
**Prerequisites:** None

**OTH093: Introduction to Culinary Arts (Elective)**

Food is fundamental to life. Not only does it feed our bodies, but it’s often the centerpiece for family gatherings and social functions. In this course, students learn all about food, including food culture, food history, food safety, and current food trends. They also learn about the food service industry and prepare some culinary dishes. Through hands-on activities and in-depth study of the culinary arts field, this course helps students hone their cooking skills and gives them the opportunity to explore careers in the food industry.

**Course Length:** One semester  
**Materials:** Household items required (but not supplied): stand mixer, meat thermometer, assorted ingredients for recipes  
**Prerequisites:** None
**OTH018: Fashion and Interior Design (Elective)**

From the clothes we wear to the homes we live in, fashion and design is all around us. In this course, students who have a flair for fashion or who constantly redecorate their room find out what it is like to work in the design industry by exploring career possibilities and the background needed to pursue them. Students try their hand at designing as they learn the basics of color and design, then test their skills through hands-on projects. In addition, they develop the essential communication skills that build success in any business. By the end of the course, students are well on their way to developing the portfolio needed to get started in this exciting field.

**Course Length:** One semester

**Materials:** Household items required (but not supplied): sewing machine, digital camera, measuring tape, project supplies that vary depending on projects chosen, fabric that varies depending on project chosen

**Prerequisites:** None

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**OTH035: Early Childhood Education (Elective)**

Children experience enormous changes in the first few years of their lives. They learn to walk, talk, run, jump, read and write, among other milestones. Caregivers can help infants, toddlers, and children grow and develop in positive ways. This course is for students who want to influence the most important years of human development. In the course, students learn how to create fun and educational environments for children; how to keep the environment safe for children; and how to encourage the health and well-being of infants, toddlers, and school-aged children.

**Course Length:** One semester

**Materials:** None

**Prerequisites:** None

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**OTH092: Introduction to Health Sciences (Elective)**

Will we ever find a cure for cancer? What treatments are best for conditions like diabetes and asthma? How are illnesses like meningitis, tuberculosis, and measles identified and diagnosed? Health sciences provide the answers to questions such as these. This course introduces students to the various disciplines within the health sciences, including toxicology, clinical medicine, and biotechnology. Students explore the importance of diagnostics and research in the identification and treatment of diseases. The course presents information and terminology for the health sciences and examines the contributions of different health science areas.

**Course Length:** One semester

**Materials:** None

**Prerequisites:** None

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**OTH033: Veterinary Science (Elective)**

As animals play an increasingly important role in our lives, scientists have sought to learn more about their health and well-being. Taking a look at the pets that live in our homes, on our farms, and in zoos and wildlife sanctuaries, this course examines some of the common diseases and treatments for domestic animals. Toxins, parasites, and infectious diseases...
affect not only the animals around us, but at times, us humans as well! Through veterinary medicine and science, the prevention and treatment of diseases and health issues are studied and applied.

**Course Length:** One semester  
**Materials:** None  
**Prerequisites:** None

**OTH034: Introduction to Agriscience (Elective)**

Agriculture has played an important role in the lives of humans for thousands of years. It has fed us and given us materials that have helped us survive. Today, scientists and practitioners are working to improve and better understand agriculture and how it can be used to continue to sustain human life. In this course, students learn about the development and maintenance of agriculture, animal systems, natural resources, and other food sources. Students also examine the relationship between agriculture and natural resources and the environment, health, politics, and world trade.

**Course Length:** One semester  
**Materials:** None  
**Prerequisites:** None

**OTH091: Law and Order (Elective)**

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

**Course Length:** One semester  
**Materials:** None  
**Prerequisites:** None

**OTH038: Careers in Criminal Justice (Elective)**

Do you want to help prevent crime and maintain order in society? The criminal justice system may be a good career option. The criminal justice system offers a wide range of career opportunities, from law enforcement to forensic scientists to lawyers and judges. In this course, students will explore different areas of the criminal justice system, including the trial process, the juvenile justice system, and the correctional system. Careers in each area will be explored and students will learn more about the expectations and training required for various career options in the criminal justice field.

**Course Length:** One semester  
**Materials:** None  
**Prerequisites:** None
**OTH039: Criminology**

In the modern world, many citizens share a concern about criminal behaviors and intent. This course introduces students to the field of criminology, the study of crime. Students look at possible explanations for crime from psychological, biological, and sociological perspectives; explore the categories and social consequences of crime; and investigate how the criminal justice system handles criminals and their misdeeds. The course explores some key questions: Why do some individuals commit crimes while others do not? What aspects of culture and society promote crime? Why are different punishments given for the same crime? What factors—from arrest to punishment—help shape the criminal case process?

**Course Length:** One semester  
**Materials:** None  
**Prerequisites:** None

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**TCH010: Computer Literacy (Elective)**

Students must be able to effectively use technology to research, organize, create, and evaluate information. In this introductory course, students become familiar with the basic principles of a personal computer, including the internal hardware, operating system, and software applications. Students gain practice in using key applications such as word processing, spreadsheet, and presentation software, as well as understand social and ethical issues around the Internet, information, and security.

In the first part of the course, the focus is on the fundamentals: learning and using the applications, and understanding the basic roles and responsibilities of the software, hardware, and operating system. In the second part, the focus is on gathering and analyzing data, and using the right tools and methods to collect and present data.

*This course should not be taken if the student has already completed Computer Fundamentals.*

**Course Length:** One semester  
**Software:** OpenOffice.org version 3.2; Mozilla Firefox; Adobe Reader; Adobe Flash Player; 7-Zip compression program (all available by free download within the course)  
**System Requirements:** Microsoft Windows XP, Windows Vista, Windows 7, or Mac OS X 10.4 or higher operating system; for Windows, 256 MB of memory (RAM), 650 MB available hard drive space, and a 1024 x 768 or higher monitor resolution; for Mac OS X, an Intel processor, 512 MB of memory (RAM), 400 MB available disk space, and a 1024 x 768 or higher monitor resolution  
**Prerequisites:** None

**TCH017: 3D Art I: Modeling (Elective)**

This course introduces students to 3D modeling tools and concepts. Using Blender, the popular open-source 3D modeling package, students learn the basics of creating shapes, adding textures and lighting, and rendering. By the end of the course, students produce a series of increasingly sophisticated projects for their 3D portfolio. This course is suitable for students with no prior experience in 3D game design or digital media authoring tools.
TCH018: 3D Art II: Animation (Elective)

In this advanced course, students build on the skills they developed in 3D Art I to learn 3D animation techniques. Using Blender, a powerful open-source modeling tool, students master the basics of animation—rigging, bones, and movement—while learning how to apply traditional animation techniques to their 3D models.

Course Length: One semester
Materials: 3-button mouse or trackpad is required
Prerequisites: None

TCH020: Computer Fundamentals (Elective)

In this introductory course, students will become familiar with the basic principles of a personal computer, including the internal hardware, the operating system, and software applications. Students will gain practice in using key applications such as word processors, spreadsheets and presentation software, as well as understand social and ethical issues around the Internet, information and security.

This is a two-semester course package. In the first semester, the focus is on the fundamentals, learning and using the applications, and understanding the basic roles and responsibilities of the software, hardware an operating system. In the second semester, the focus is on gathering and analyzing data, and using the right tools and methods to collect and present data.

This course should not be taken if the student has already completed Computer Literacy.

Course Length: Two semesters
Software: OpenOffice.org version 3.2, Mozilla Firefox, Adobe Reader, Adobe Flash Player; 7-Zip compression program (all available by free download within the course)
System Requirements: Microsoft Windows XP, Windows Vista, Windows 7, or Mac OS X 10.4 or higher operating system; for Windows, 256 MB of memory (RAM), 650 MB available hard drive space, and a 1024 x 768 or higher monitor resolution; for Mac OS X, an Intel processor, 512 MB of memory (RAM), 400 MB available disk space, and a 1024 x 768 or higher monitor resolution
Prerequisites: None

TCH026: Audio Engineering (Elective)

In this introductory course, students learn about the physics of sound and the history of recording technologies. They learn about the four stages of professional music recording projects: recording, editing, mixing, and mastering. Using Audacity, an open-source recording and mixing program, they practice the techniques used by sound engineers to produce multi-track recordings. Through a series of engaging hands-on projects, they learn the fundamental concepts of audio engineering.

Course Length: One semester
Software: Audacity (free download provided in course)
System Requirements: Microsoft Windows XP, Windows Vista, Windows 7, or Mac OS X
10.4 or higher operating system; for Windows XP and Vista Home Basic, a 1 GHz or faster processor; for Windows Vista Home Premium/Business/Ultimate and Windows 7, a 2 GHz or faster processor; for Mac OS X, a 300 MHz or faster processor; for XP, 512 MB of memory (RAM); for Vista Home Basic, 2 GB, for Vista Home Premium/Business/Ultimate and for Windows 7, 4 GB; for Mac OS X, 64 MB; at least 4 GB of available hard drive space

**Prerequisites:** None

**TCH027: Green Design and Technology (Elective)**

This course examines the impact of human activities on sustainability while exploring the basic principles and technologies that support sustainable design. Students learn about the potential for emerging energy technologies such as water, wind, and solar power. They find out how today’s businesses are adapting to the increased demand for sustainable products and services. In this course, students develop a comprehensive understanding of this fast-growing field.

**Course Length:** One semester

**Materials:** None

**Prerequisites:** None

**TCH028: Digital Arts I (Elective)**

In this exploratory course, students learn the elements and principles of design, as well as foundational concepts of visual communication. While surveying a variety of media and art, students use image editing, animation, and digital drawing to put into practice the art principles they’ve learned. They explore career opportunities in the design, production, display, and presentation of digital artwork. They respond to the artwork of others, and learn how to combine artistic elements to create finished pieces that effectively communicate their ideas.

**Course Length:** One semester

**Software:** Inkscape (free download provided in course)

**System Requirements:** Microsoft Windows XP, Windows Vista, or Mac OS X 10.3 or higher operating system, 1 GHz or faster processor; at least 512 MB of memory (RAM); at least 1 GB of available hard drive space

**Prerequisites:** None

**TCH029: Digital Arts II (Elective)**

Students build on the skills and concepts they learned in Digital Arts I as they develop their vocabulary of digital design elements. By the end of the course, they will have created a collection of digital art projects for their digital design portfolio.

**Course Length:** One semester

**Software:** Inkscape (free download provided in course)

**System Requirements:** Microsoft Windows XP, Windows Vista, or Mac OS X 10.3 or higher operating system, 1 GHz or faster processor; at least 512 MB of memory (RAM); at least 1 GB of available hard drive space

**Prerequisites:** TCH028: Digital Arts I (or equivalent)
**TCH030: Image Design and Editing (Elective)**

This introductory design course is for students who want to create compelling, professional-looking graphic designs and photos. Students learn the basics of composition, color, and layout through the use of hands-on projects that allow them to use their creativity while developing important foundational skills. They use GIMP software to create a graphic design portfolio with a wide variety of projects involving the mastery of technical topics such as working with layers and masks, adding special effects, and effectively using typefaces to create visual impact. The projects help students develop the skills they need to create and edit images of their own.

**Course Length:** One semester  
**Materials:** GIMP software (free download), Windows or Mac operating system  
**Prerequisites:** None

**TCH036: Computer Science (Elective)**

This course introduces students to computer science concepts such as computer architecture, networks, and the Internet. Students use object-oriented programming, event-driven processes, modular computer programming, and data manipulation algorithms to produce finished software programs. They use the design process to create many programs by determining specifications, designing the software, and testing and improving the product until it meets the specifications. By the end of this course, students will have a solid foundation for further study in this subject.

**Course Length:** One semester  
**Software:** Free download provided in course  
**System Requirements:** Microsoft Windows or Mac OS X operating systems Windows XP, Windows Vista, or Windows 7 recommended; at least 100 MB of available hard drive space  
**Prerequisites:** None

**TCH038: Engineering Design /CAD (Elective)**

Computer-aided design systems are used by designers and manufacturers in virtually every industry to create engineering design solutions. In this course, students are introduced to engineering, learning the basics of CAD software: creating points, lines, other geometric forms, isometric drawings, and 3D models. They learn how to translate initial concepts into functional designs and 3D walkthroughs and explore career options in this hands-on introductory-level course.

**Course Length:** One semester  
**Software:** Free download provided in course  
**System Requirements:** Microsoft Windows XP or Windows Vista operating system; 600 MHz or faster processor (1 GHz for Vista); 512 MB of memory (RAM) (1 GB for Vista); at least 2 GB of available hard drive space; 3D class video card with 128 MB of memory or higher (256 MB for Vista)—the video card driver must support OpenGL version 1.5 or higher  
**Prerequisites:** None

**TCH040: Web Design (Elective)**

This course provides a comprehensive introduction to the essentials of web design, from planning page layouts to publishing a complete site to the web. Students learn how to use HTML to design their own web pages. The course covers basic HTML tags for formatting text, as well as more advanced tags. Through real-world design scenarios and hands-on projects, students create compelling, usable websites using the latest suite of free tools.
TCH060: C++ Programming (Elective)
In this introductory course, students learn basic programming concepts through a series of hands-on projects. They also learn about software development careers, the software development process, and industry best practices. Using Microsoft Visual Studio 2013, students master the building blocks of programming: functions, variables, loops, arrays, and classes.

Course Length: One semester
Materials: None
Prerequisites: None

TCH061: Programming I: VB.NET (Elective)
Students learn basic programming and the essential concepts of VisualBasic.net (VB.NET) in this one-semester course. As an introduction to VB.NET, students are taught the basic uses of the programming language, its similarities to the English language and others, its architecture, program flow, and its flexibility as a programming language. The course helps participants understand the processes involved in software development and object-oriented programming. This is an introductory course that could lead to careers such as software engineer, developer, or game designer. Prior coursework in computer fundamentals is a prerequisite. Visual Studio 2008 Express Edition is required software for this course.

Course Length: One semester
Materials: None
Prerequisites: Knowledge of computer fundamentals

TCH062: Programming II: Java (Elective)
This introductory-level, one-semester course is designed for people who have very little programming experience. In Java Programming, students gain an understanding of Java platforms and learn how to build a stand-alone application such as a countdown clock or leap year indicator. Students also learn the techniques of Java and how Java can be used in cross-platform programming. At the end of the course, students are able to write basic programs using Java and are prepared to pursue further instruction in any programming language. Prior coursework in computer fundamentals and programming are prerequisites for Java Programming. JDK 1.5 or a higher version Java application is required for this course.

Course Length: One semester
Materials: None
Prerequisites: Basic computer fundamentals; VB.NET Programming I or a solid understanding of version control and general software development
**TCH070: Game Design (Elective)**

This course is for anyone who loves gaming and wants to design and build original games from scratch. Students learn how to use popular game-development software to create engaging, interactive games in a variety of styles. After learning about game genres, students learn about all aspects of the game-design process. From there, it’s on to a series of increasingly challenging hands-on projects that teach all the elements of successful game development.

**Course Length:** One semester  
**Software:** Multimedia Fusion 2.5 (Standard)  
**System Requirements:** Microsoft Windows XP or Windows Vista operating system; 1 GHz or faster processor; 256 MB of memory (RAM); at least 2 GB of available hard drive space  
**Prerequisites:** None

**TCH101: Digital Photography (Elective)**

This course focuses on the basics of photography, including building an understanding of aperture, shutter speed, lighting, and composition. Students are introduced to the history of photography and basic camera functions. They use the basic techniques of composition and camera functions to build a portfolio of images, capturing people, landscapes, close-ups, and action photographs.

**Course Length:** One semester  
**Materials:** Digital camera (not supplied)  
**Prerequisites:** None
ORN010: Online Learning

The Online Learning course explains to students how the K12 high school program works, and provides tips on successful online learning. Students are introduced to the online tools they will use during their high school experience, including the Learning Management System that delivers course assignments. Students take part in online discussions and practice submitting computer-scored assessments and other assignments to teachers. Lifelong learning skills such as time management and study habits are also covered. By the end of the course, students will be fully prepared to begin their K12 high school courses.

Course Length: 6–8 hours
Materials: None
Prerequisites: None

ORN100: Finding Your Path I
ORN200: Finding Your Path II
ORN300: Finding Your Path III
ORN400: Finding Your Path IV

Students begin each school year with a course specifically targeted to the unique concerns of freshmen, sophomores, juniors, and seniors. This 10-hour orientation course is unique for each student—as school counselors, advisors, and other staff guide them through an in-depth exploration of their interests, abilities, and skills. Students explore their education and career interests, define goals, and create a path through high school that will get them there. In addition, this course serves as a “home base” where students and school counselors can address topics that are critical to ensuring success in high school and beyond.

Course Length: 10 hours
Materials: None
Prerequisites: None
High School Course List

### ENGLISH

- English Foundations I
- English Foundations II
- Literary Analysis and Composition I
- Literary Analysis and Composition II
- American Literature
- British and World Literature
- AP English Language and Composition
- AP English Literature and Composition
- Journalism*
- Public Speaking*
- Creative Writing
- Gothic Literature*

### MATH

- Math Foundations I
- Math Foundations II
- Consumer Math
- Practical Math
- Developmental Algebra
- Pre-Algebra
- Algebra I
- Algebra II
- Integrated Mathematics I
- Geometry
- Integrated Mathematics II
- Algebra
- Pre-Calculus/Trigonometry
- Probability and Statistics*
- Calculus
- AP Calculus AB
- AP Calculus BC
- AP Statistics
- Personal Finance*
- Integrated Math

### SCIENCE

- Physical Science
- Earth Science
- Biology
- Chemistry
- Physics
- AP Biology
- AP Chemistry
- AP Environmental Science
- Environmental Science*
- Forensic Science*
- Astronomy*

### HISTORY and SOCIAL SCIENCES

- World History
- Modern World Studies
- Geography
- U.S. History
- Modern U.S. History
- U.S. Government and Politics*
- U.S. and Global Economics*
- AP U.S. History
- AP U.S. Government and Politics*
- AP Macroeconomics*
- AP Microeconomics*
- AP Psychology*
- AP World History
- Anthropology*
- Psychology*
- Economics*
- Civics*
- Family and Consumer Science*
- Contemporary World Issues
- Sociology
- Archaeology*

### WORLD LANGUAGES

- Spanish I
- Spanish II
- Spanish III
- Spanish IV
- AP Spanish Language and Culture

### WORLD LANGUAGES (CONT.)

- French I
- French II
- French III
- French IV
- AP French Language and Culture
- German I
- German II
- German III
- German IV
- Latin I
- Latin II
- Chinese I
- Chinese II
- Japanese I
- Japanese II

### ADDITIONAL ELECTIVES

- Fine Art
- Music Appreciation
- Service Learning*
- Skills for Health*
- Nutrition and Wellness*
- Life Skills*
- Physical Education*
- Reaching Your Academic Potential*
- Achieving Your Career and College Goals*
- Drivers Safety*

### CAREER TECHNICAL EDUCATION (CTE) ELECTIVES

- Introduction to Entrepreneurship I*
- Introduction to Entrepreneurship II*
- Introduction to Marketing*
- Sports and Entertainment Marketing*
- Hospitality and Tourism*
- Accounting
- Introduction to Culinary Arts*
- Fashion and Interior Design*
- Early Childhood Education*
- Introduction to Health Sciences*
- Veterinary Science*
- Introduction to Agriscience*
- Law and Order*
- Careers in Criminal Justice*
- Criminology*

### TECHNOLOGY and COMPUTER SCIENCE

- Computer Literacy*
- Computer Fundamentals
- 3D ART: Modeling*
- 3D ART: Animation*
- Digital Photography*
- Image Design and Editing*
- Web Design*
- C++ Programming*
- Programming I: VB.NET*
- Programming II: Java*
- Game Design*
- Audio Engineering*
- Green Design and Technology*
- Digital Arts I*
- Digital Arts II*
- Computer Science*
- Engineering Design/CAD*

### ORIENTATION

- Online Learning
- Finding Your Path Series I–IV

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