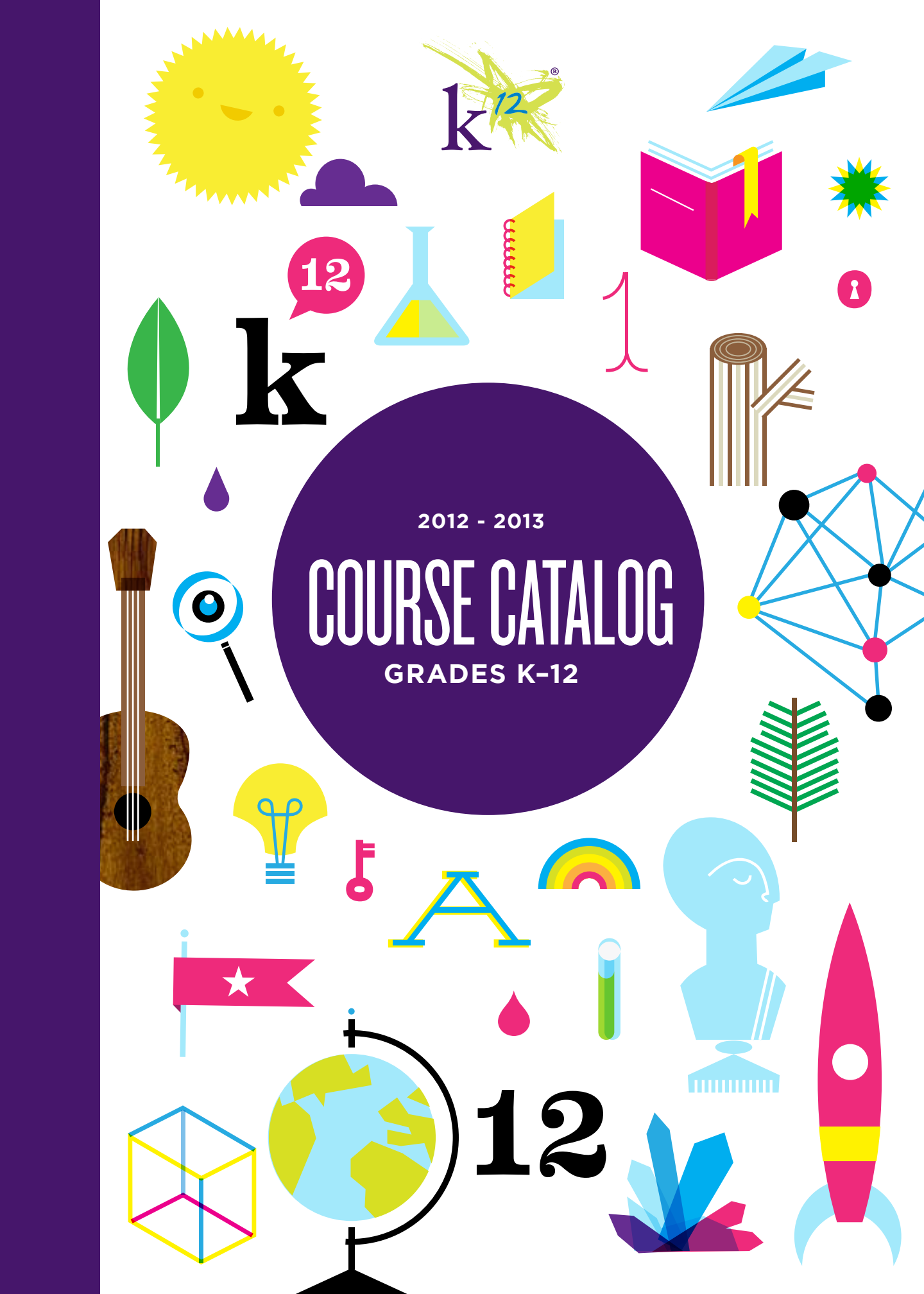
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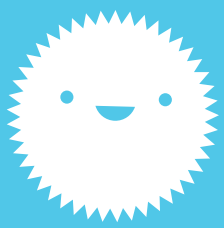
2012 - 2013
COURSE CATALOG
GRADES K-12


LET'S LEARN
K12.COM/COURSES

Elementary

Courses



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Middle School

Courses

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High School

Courses

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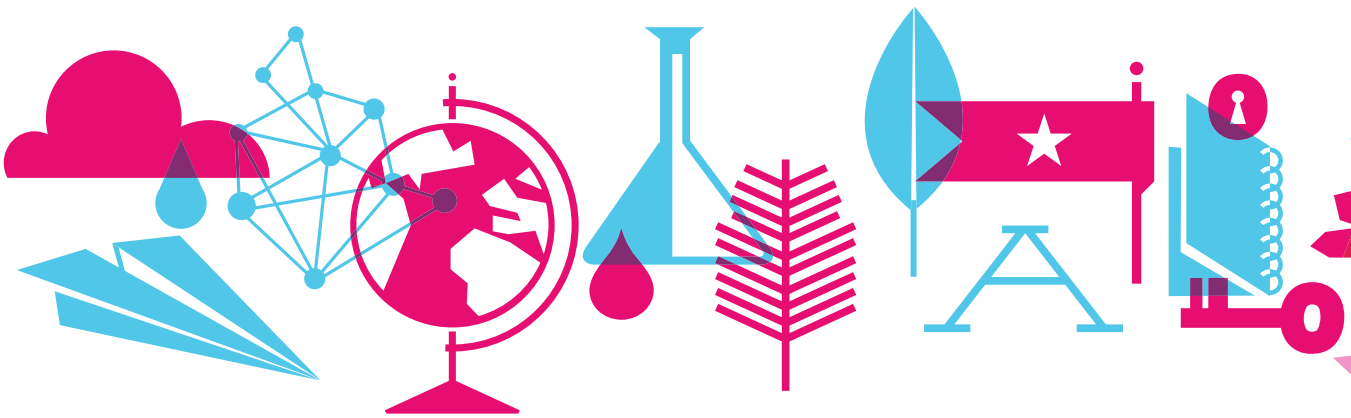
K12



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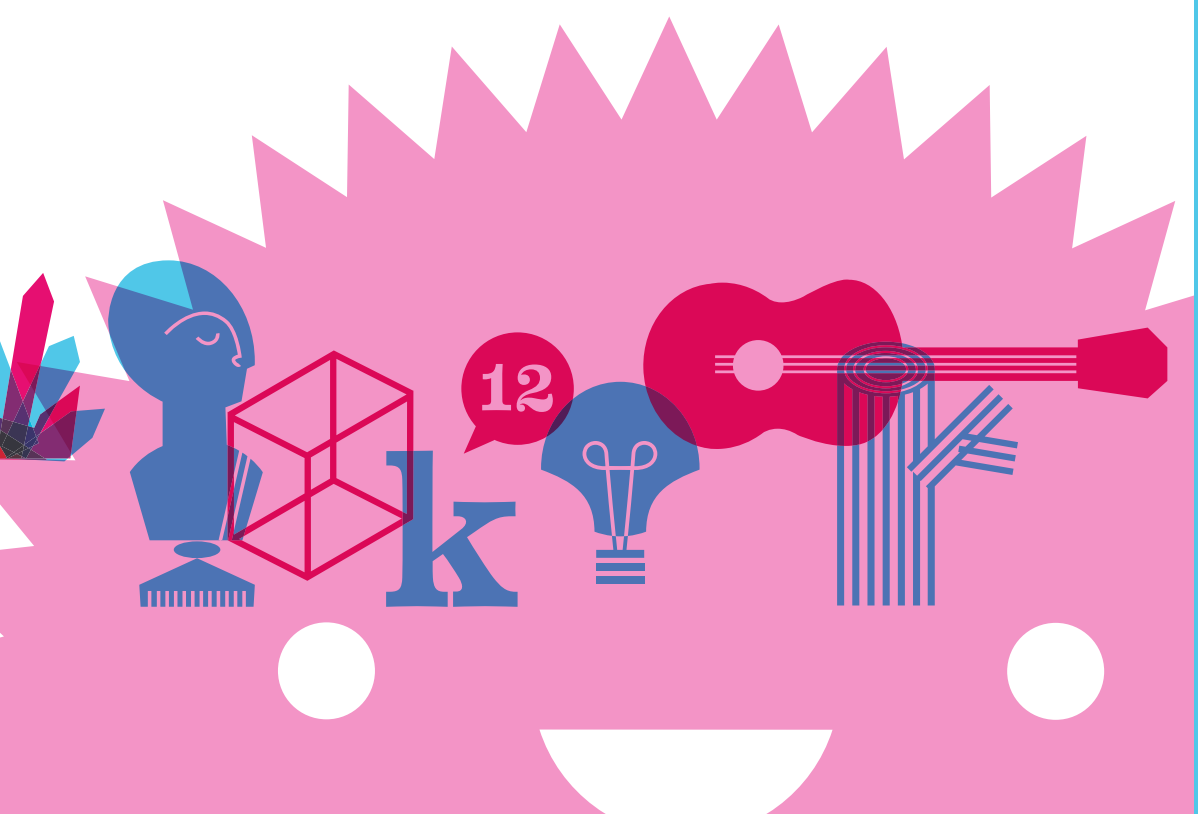
Elementary



Language Arts K (Blue)

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: K12 Language Arts Blue Lesson Guide and Activity Book, K12 PhonicsWorks Basic Kit, K12 PhonicsWorks Lesson Guide, Activity Book, and Assessment Book, K12 *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, *K12 World Magazines*, *Handwriting Without Tears: Get Set for School* Teacher's Guide and Activity Book, *Handwriting Without Tears: Letters and Numbers for Me* Teacher's Guide and Student Workbook, Slate chalkboard, Printed alphabet desk strips, Wide double line paper, Items easily found in a typical home

Language Arts 1

In Language Arts 1, students get structured lessons on reading skills, language skills, and literature to help develop comprehension, build vocabulary, and promote a lifelong interest in reading. The advanced K12 PhonicsWorks program helps students become confident, independent readers. *Handwriting without Tears* focuses on careful practice at a pace that matches each student's development of fine motor skills. Literature lessons focus on classic folktales, fairy tales, fables, and poetry. Read-aloud and guided reading lessons help students apply and extend the skills introduced in PhonicsWorks.

Curriculum Items: K12 Language Arts Green Lesson Guide, Activity Book, Spelling Handbook, and Assessment Book, K12 PhonicsWorks Basic and Advanced Tile Kits, K12 PhonicsWorks Advanced Lesson Guide, Activity Book, and Assessment Book, *Handwriting Without Tears*: My Printing Book Teacher's Guide and Student Workbook, *K12 Classics for Young Readers,* Vol. A, *Listen, My Children: Poems for First Graders*, from Core Knowledge, *Ready … Set … Read! The Beginning Reader's Treasury*, compiled by Joanna Cole and Stephanie Calmenson, Additional works of literature, *K12 World Magazines*, K12 Book Report Kit, K12 My Journal, K12 Grab Bag, Accomplishments chart, Story cards, Slate chalkboard, Printed alphabet desk strips, Wide double line paper, Items easily found in a typical home

Language Arts 2 (Orange)

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, White dry-erase board, Printed alphabet desk strips, Regular double line paper, Items easily found in a typical home

Language Arts 3

In Language Arts 3, reading lessons are designed to develop comprehension, build vocabulary, and help students become more independent readers. Students practice writing as a process as they write a narrative, a report, letters, and poetry. Students learn about sentence structure, parts of speech, and research skills. Through weekly word lists, students learn relationships between sounds and spellings. Students read works of nonfiction, as well as four novels. Students learn and use techniques for effective oral presentations, and develop test-taking and critical thinking skills.

Curriculum Items: *Classics for Young Readers*, Vols. 3A and 3B, *Civilizations Past to Present: Greece* by Kevin Supples, *George Washington: Soldier, Hero, President* by Justine and Ron Fontes, *The Declaration of Independence* by Elaine Landau, Additional works of literature, *Handwriting Without Tears: Cursive Handwriting* Teacher's Guide and Student Workbook, H*andwriting Without Tears: Cursive Success* Teacher's Guide and Student Workbook, *Exercises in English*: Student Edition, *Primary Analogies,* Book 3, *Wordly Wise 3000,* Book B, *Writing in Action,* Vols. A and B, *Test Ready Plus: Reading*, *Test Ready: Reading Longer Passages*, *Test Ready Plus: Language Arts*, White dry-erase board, Items easily found in a typical home

Language Arts 4

This is a comprehensive course covering composition, vocabulary, grammar, usage, and mechanics, including sentence analysis and diagramming. Structured lessons on spelling enable students to recognize base words and roots in related words. Lessons are designed to develop comprehension, build vocabulary, and help students become more independent readers. The emphasis is on classic literature. Students read works of nonfiction, as well as four novels selected from a long list of classics.
A test preparation program prepares students for standardized tests.

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), *New Vocabulary Workshop Workbook* (Orange), *Test Ready Plus: Language Arts*, Book 4, *Test Ready Plus: Reading*, Book 4, *Robinson Crusoe* by Daniel Defoe (K[12] edition, retold for young readers), *Feathers, Flippers and Fur, If You Lived in the Days of the Knights* by Ann McGovern, *Nature's Way, Pollyanna* by Eleanor Porter (K[12] edition, abridged for young readers), Keyboarding CD, Word processing book, White dry-erase board

Language Arts 5

This course provides structured lessons on composition, vocabulary, grammar, usage, and mechanics. Through emphasis on spelling, students learn relationships between sounds and spellings in words and affixes. 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. Students learn about parts of speech, punctuation, and research skills. Students read works of nonfiction, as well as four novels selected from a long list of classics.

Curriculum Items: *Classics for Young Readers,* Vol. 5A, *Classics for Young Readers,* Vol. 5B, *American Lives & Legends*, *Exercises in English,* Millennium ed. (Level E), *Vocabulary Workshop* (Blue), *Test Ready: Language Arts,* Book 5, *Test Ready: Reading Longer Passages,* Book 5, *Paddle-to-the-Sea* by Holling Clancy Holling, *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 (K[12] edition, retold for young readers), Keyboarding CD, Word processing book, White dry-erase board

MARK[12] Reading I (Adaptive Remediation)

Mastery. Acceleration. Remediation. K[12]. MARK[12] courses are for students in the third to fifth grades who are struggling readers. MARK[12] 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: *MARK[12] Reading Lesson Guide,* Vol. 1, *MARK[12] Reading Activity Book,* Vol. 1, *MARK[12] Classics for Young Readers,* Vol. 1, *Just Write!* Levels 1 and 2, Online tile kit, Pencils, Index cards, Markers

MARK[12] Reading II (Adaptive Remediation)

Mastery. Acceleration. Remediation. K[12]. MARK[12] courses are for students in the third to fifth grades who are struggling readers. MARK[12] 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: *MARK[12] Reading Lesson Guide,* Vol. 2, *MARK[12] Reading Activity Book,* Vol. 2, *MARK[12] Classics for Young Readers,* Vol. 2, *Writing in Action, Level A*, Online tile kit, Pencils, Index cards, Markers

MARK[12] Reading III (Adaptive Remediation)

Mastery. Acceleration. Remediation. K[12]. MARK[12] courses are for students in the third to fifth grades who are struggling readers. MARK[12] 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: *MARK[12] Reading Lesson Guide,* Vol. 3, *MARK[12] Reading Activity Book, Vol. 3, MARK[12] Classics for Young Readers,* Vol. 3, *Writing in Action,* Level B, Online tile kit, Pencils, Index cards, Markers

Math[+] K (Blue)

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 kindergarten 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 K[12] block set, Lesson guide book, Items easily found in a typical home

Math+ 1 (Green)

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 for students in grade 1 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 a typical home

Math+ 2 (Orange)

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 for students in grade 2 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 a typical home

Math+ 3 (Purple)

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 for students in grade 3 provides a quick overview of whole number addition and subtraction, but has a greater focus on whole number multiplication and division, encompassing early algebraic thinking. Decimals are studied in relationship to place value and money, and fractions are addressed through multiple representations and probability. Students are introduced to specific methods and strategies to help them become more effective problem solvers. Geometry and measurement are addressed through the study of two- and three-dimensional shapes, early work with perimeter, area, and volume, and applying measuring techniques to time, length, capacity, and weight.

Curriculum Items: Textbook, Custom K12 block set, Lesson guide book, Base-10 blocks set, Place-value mat, Items easily found in a typical home

Math+ 4 (Red)

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 for students in grade 4 moves into applications and properties of operations. Students work with simple fraction and decimal operations, which are applied in the study of measurement, probability, and data, and mathematical reasoning techniques. Students begin the study of equivalencies between fractions and decimals on the number line and early work with integers. Algebraic thinking is developed as students work with variables, coordinate graphing, and formulas in problems involving perimeter, area, and rate. Geometry is extended into greater classification of shapes and work with lines, angles, and rotations.

Curriculum Items: Textbook, Color tiles set, Lesson guide book, Protractor, Items easily found in a typical home

Math+ 5 (Yellow)

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 for students in grade 5 investigates whole numbers through practical situations in rounding, exponents and powers, and elementary number theory. Students begin addition and subtraction of integers and apply all of their work with rational numbers to problem solving experiences. The study of algebra includes work with variables, solving equations and inequalities, using formulas within geometry and measurement, and work within the coordinate system. The study of geometry encompasses properties of lines, angles, two- and three-dimensional figures, and formal constructions and transformations.

Curriculum Items: Textbook, Lesson guide book, Protractor, Items easily found in a typical 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 the Earth), motion (pushes and pulls, magnets), and astronomy (the Earth, Sun, Moon, and stars; exploring space; astronauts Neil Armstrong and Sally Ride).

Curriculum Items: Plastic pipette, 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.

Curriculum Items: Bean seeds, Grass seeds, Directional compass, Graduated cylinder, 100 mL, Basic thermometer, Plastic pipette, Safety goggles, Magnifying glass, Bar magnets (pair), Mirror, Feathers, Centimeter gram cubes, Primary balance, Iron fillings, Styrofoam ball (2" diameter), Mylar paper, silver, Inflatable globe, *An Octopus Is Amazing* by Patricia Lauber, *Down Comes the Rain* by Franklyn Branley, *Flash, Crash, Rumble, and Roll* by Franklyn Branley, *What Color Is Camouflage?* by Carolyn Otto, *What Is the World Made Of?* by Kathleen Weidner Zoehfeld

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, Directional compass, Graduated cylinder, 100 mL, Primary rock and mineral kit, Basic thermometer, Plastic pipette, 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, 100 mL, Directional compass, Safety goggles, Magnifying glass, Advanced thermometer, Clay (four colors), Modeling clay, Directional compass

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.

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, Seashell, White tile, Plastic aquarium tubing

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: Alum, Test tube, Safety goggles, Graduated cylinder, 100 mL , Litmus paper, 30 Newton spring scale, Advanced thermometer, *How Bodies Work*, *Classifying Life*, Marble in bag, Clay (four colors), Potting soil, Coarse gravel, Pea gravel, Coarse sand, Fine sand, Plastic box, Tagboard

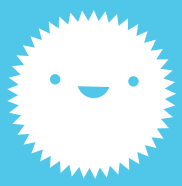
History K

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), *Let's Journey: Around the World* CD, *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, *Rechenka's Eggs* by Patricia Polacco, *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

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), CD: *Tales from the Old Testament* by Jim Weiss, CD: *Greek Myths* by Jim Weiss, *Mummies* by Joyce Milton, *The Egyptian Cinderella* by Shirley Climo, *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, *Saint Valentine* by Robert Sabuda, *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), *Charles Dickens: The Man Who Had Great Expectations* by Diane Stanley and Peter Vennema, *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.

Curriculum Items: U.S./world map (3–5), *Map Skills and Our World*, Level 5, *A History of US: The Concise School Edition* by Joy Hakim (Vol. A: Prehistory to 1800, and Vol. B: 1790 to 1877)

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, Kindergarten, Paintbrush, tempera, flat bristle #1, Paintbrush, tempera, medium #4, Paintbrush, tempera, large #8, Modeling clay, assorted colors, Tempera paint set, Oil pastels

Art 1

Following the timeline of K[12] 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, Grade 1, Paintbrush, tempera, flat bristle #1, Paintbrush, tempera, medium #4, Paintbrush, tempera, large #8, Modeling clay, assorted colors, Tempera paint set, Oil pastels

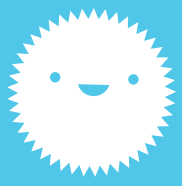
Art 2

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, Grade 2, Paintbrush, tempera, flat bristle #1, Paintbrush, tempera, medium #4, Paintbrush, tempera, large #8, Modeling clay, assorted colors, Tempera paint set, Oil pastels

Art 3

Following the timeline of K[12] 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, Grade 3, 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, Grade 4, Paintbrush, tempera, flat bristle #1, Paintbrush, tempera, small #1, Paintbrush, tempera, medium #4, Paintbrush, tempera, large #8, 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, Intermediate Art: American A, Paintbrush, tempera, small #1, Paintbrush, tempera, medium #4, Paintbrush, tempera, large #8, 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 Learn Music*—Vol. K (DVD), *Let's Listen*—Vol. K (CD), *Let's Sing*—Vol. K (CD), *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 K[12] 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 Learn Music*—Vol. 1 (DVD), *Let's Listen*—Vol. 1 (CD), *Let's Sing*—Vol. 1 (CD), *Let's Sing*—Vol. 1 (songbook), *Let's Learn Rhythm* (CD), 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 Learn Music*—Vol. 2 (DVD), *Let's Listen*—Vol. 2 (CD), *Let's Sing*—Vol. 2 (CD), *Let's Sing*—Vol. 2 (songbook)

Introduction to Music

Introduction to Music is for students in grade 3 or 4 who are new to K[12] 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 Learn Music*—Vol. 2 (DVD), *Let's Listen*—Vol. 2 (CD), *Let's Sing*—Vol. 2 (CD), *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 solfege, 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 Learn the Recorder* (DVD), *Let's Sing*—Vol. 3 (CD), *Let's Listen*—Vol. 3 (CD), *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 (CD), *Let's Listen*—Vol. 4 (CD), *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.

Curriculum Item: *Let's Listen*—Vol. 5 (CD)

Exploring Music

This course is for students in grade 5 who are new to the K[12] 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 Listen and Learn*—A and B (CDs), *Let's Sing for Fun* (CD), *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 "very." 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

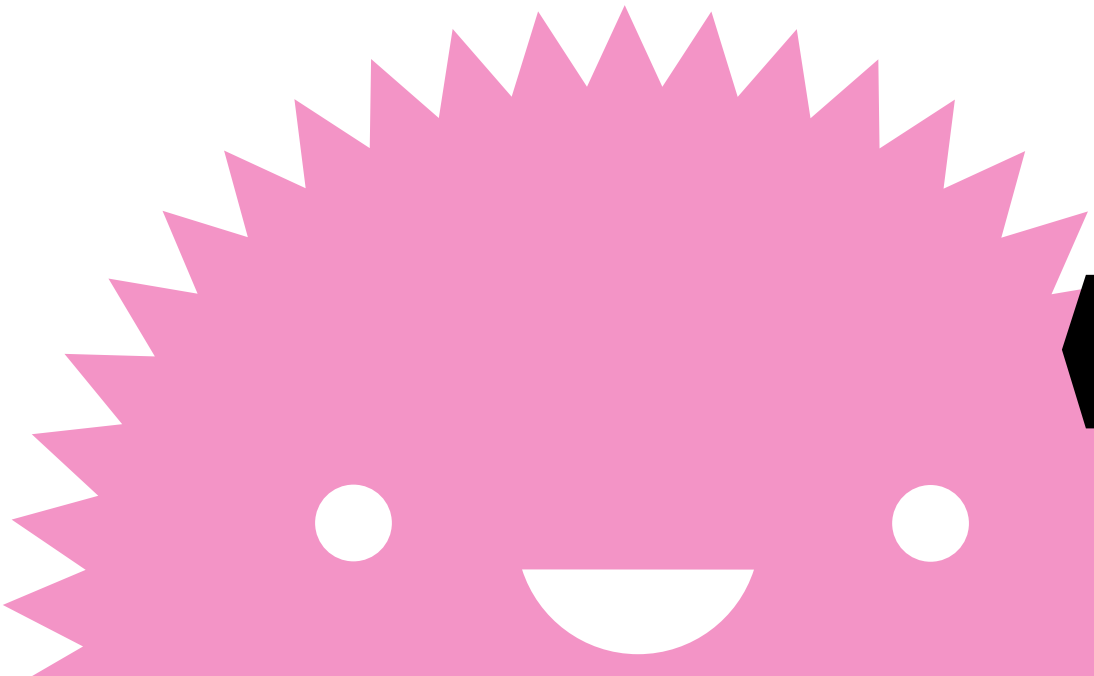
Latin remains a vital tool in improving students' fundamental understanding of English and other languages. While it's considered, in the strictest sense, to be a "dead" language, Latin comes alive in this course through the use of gaming and multimedia techniques, creating the foundation for a deep 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 as well as military, political, and artistic aspects of the Roman Empire.

Introduction to Online Learning

Families begin the school year with one of two Introduction to Online Learning courses targeted to grades K–2 or 3–5. The courses provide 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 K[12] lessons in the online school.



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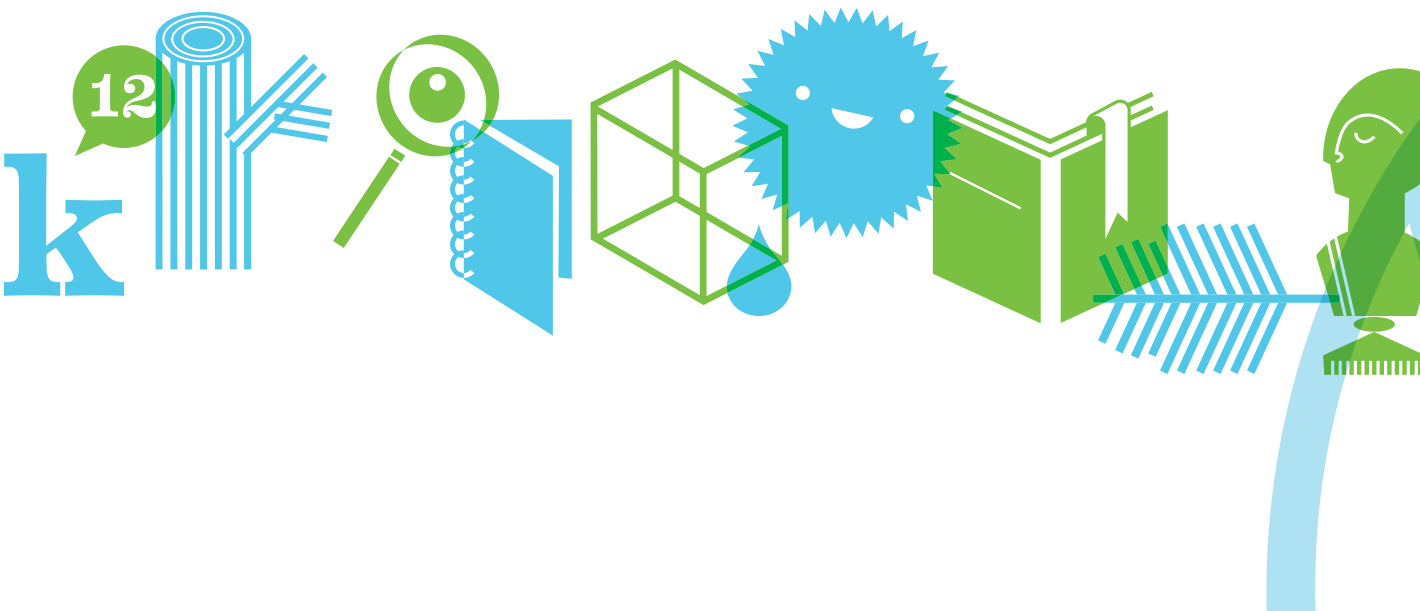

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Middle

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.

Curriculum Items: *Myths of Ancient Greece and Rome* (an anthology from K[12]), *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 CD, *Classics for Young Readers,* Vol. 6: An Audio Companion, *Twelfth Night* (Shakespeare for Young Readers adaptation), Keyboarding CD, Word processing book, *BK English Language Handbook, Grade 6* Barrett Kendall Publishing, Vocabulary

Novels: Students read any three 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 (or 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 readers in literary analysis, and offers a variety of literature to suit diverse tastes.

Curriculum Items: *Classics for Young Readers,* Vol. 7, *Classics for Young Readers,* Vol. 7: An Audio Companion, *BK English Language Handbook, Grade 7* Barrett Kendall Publishing, *Vocabulary from Classical Roots, Book B Educator's* Publishing Service, *The Iliad and The Odyssey: Stories from Homer's Epics* (an anthology from K[12]), *The Hobbit* by J.R.R. Tolkien, *Treasure Island* by Robert Louis Stevenson, *City* by David Macaulay, *Julius Caesar* (Shakespeare for Young Readers adaptation), Keyboarding CD, Word processing book

Novels: This program allows students to read any three 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 will 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 program is organized in four strands: Literature; Composition; Grammar, Usage, and Mechanics; and Vocabulary. In the writing program, students continue

to sharpen their composition skills through writing essays in various genres. In the literature program, 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.

Readings include:
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, *Antigone* by Sophocles,

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

Poetry by W. H. Auden, Gwendolyn Brooks, e. e. cummings, Emily Dickinson, Robert Frost, Gerard Manley Hopkins, James Weldon Johnson, John Keats, Henry Wadsworth Longfellow, Pablo Neruda, Octavio Paz, William Shakespeare, Dylan Thomas, William Butler Yeats, and more

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

Curriculum Items: *Classics for Young Readers,* Vol. 8, *Classics for Young Readers,* Vol. 8: An Audio Companion, *BK English Language Handbook,* Level 1 Barrett Kendall Publishing, *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* (new version)

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 percents, 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: A Reference Guide and Problem Sets*

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. Students who take this course are expected to have mastered the skills and concepts of the K12 Fundamentals of Geometry and Algebra course (or equivalent).

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

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. Students who take Algebra are expected to have mastered the skills and concepts presented in the K12 Pre-Algebra course (or equivalent).

Curriculum Items:, *Algebra I: Reference Guide and Problem Sets*

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, 100 mL, Graduated cylinder, 500 mL, Pipe cleaners, Advanced rock and mineral kit, Diffraction grating film, Stopwatch, Grape seeds, Latch magnet, Safety glasses, Magnifying glass, Centimeter gram cubes, Clay (four colors), Fine sand, White tile, Advanced 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, 250 mL, Pipe cleaners, Advanced rock and mineral kit, Diffraction grating film, Stopwatch, Latch magnet, Safety glasses, Magnifying glass, Centimeter gram cubes, Clay (four colors), Fine sand, White tile, Advanced thermometer

Life Science

The K[12] 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, 100 mL, 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, Blue fescue grass seeds, Safety glasses, Magnifying glass, Advanced 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, 100 mL, 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, Blue fescue grass seeds, Safety glasses, Magnifying glass, Advanced thermometer

NOTE: List is subject to change.

Physical Science

The K[12] 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, 250 mL, Stopwatch, 10 Newton spring scale, Digital scale, Double pulley, Lye, Metallic rod, Metallic spring, Muriatic acid, Phenolphthalein, Protective gloves (two pairs), D cell battery holder, Cork stoppers, Lead weight (500 g), 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, 250 mL, Stopwatch, 10 Newton spring scale, Digital scale, Double pulley, Lye, Metallic rod, Metallic spring, Muriatic acid, Phenolphthalein, Protective gloves (two pairs), D cell battery holder, Cork stoppers, Lead weight (500 g), Enamel coated heavy gauge copper wire, Non-insulated copper wire, Insulated copper wire strips (set of five), Directional compass, Bar magnet (set of two), Plastic pipette, Safety glasses, Iron filings, Safety glasses, Iron filings, Lamp bulbs (set of four), Lamp bulb receptacle (set of two), Advanced thermometer

NOTE: List is subject to change.

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 19th 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.

Curriculum Items: Wall map set (science/history), *A History of US: The Concise School Edition* by Joy Hakim Vol. C: 1865 to 1932, Vol. D: 1929 to Present

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 K[12]. This course focuses on the story of the past, from the 15th 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 K[12] 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, Intermediate Art: American B, Paintbrush, acrylic, small #1, Paintbrush, acrylic, medium #4, Paintbrush, acrylic, large #8, Paintbrush, acrylic, flat bristle #1/2, Pastalina 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, Intermediate Art: World A, Paintbrush, acrylic, small #1, Paintbrush, acrylic, medium #4, Paintbrush, acrylic, large #8, White self-hardening clay, Acrylic paint set

Intermediate Art: World B

K[12] 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, Intermediate Art: World B

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. Course content is offline. Students complete lessons using the *Music Ace* CD, student guides, and listening CDs.

Curriculum Items: *Music Ace*—Grade 6 (CD), *Beethoven* (CD), *Mendelssohn* (CD), *Mozart* (CD), *Vivaldi and Corelli* (CD)

Note: The student guides are not available in a pre-printed format and will need to be printed from the K12 Online School (OLS). Teacher guides are not available in any format. Parents may use the student guide to view student lesson information.

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. Course content is offline. Students complete lessons using the Music Ace CD, student guides, and listening CDs.

Curriculum Items: *Music Ace*—Grade 7 (CD), *Sousa* (CD), *Chopin* (CD), *Schumann and Grieg* (CD), *Verdi* (CD)

Note: The student guides are not available in a pre-printed format and will need to be printed from the K12 Online School (OLS). Teacher guides are not available in any format. Parents may use the student guide to view student lesson information.

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. Course content is offline. Students complete lessons using the Music Appreciation CD set and student guides.

Curriculum Item: *Music Appreciation* (six-CD set)

Note: The teacher and student guides are not available in a pre-printed format and will need to be printed from the K12 Online School (OLS).

Middle School Spanish 1

This course for early- to mid-teen beginners in Spanish* turns adventures and activities into rigorous lessons in grammar and vocabulary, with instruction equivalent to that found in the first semester of high school Spanish I. Listening comprehension, oral production, reading, writing, and cultural awareness are all emphasized in accordance with standards formulated by ACTFL (American Council on the Teaching of Foreign Languages). Communication topics include greetings, introductions, relationships, cause and effect,

likes and dislikes, and questions. Vocabulary includes common daily adjectives, animals, body parts, family and household words, colors, food, and numbers 1 to 900.

Grammar progresses from simple original sentence construction, verb infinitives, and base forms to irregular verbs, Latin-derived cognates, concrete objects and associated verbs, adjectival agreement, and demonstrative pronouns. Cultural topics include the economies, traditions, histories, and political structures of Spanish-speaking nations.

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

Middle School Spanish 2

The solid basis acquired in Middle School Spanish 1 is expanded through appealing practice and instruction in the form of games and stories, with instruction equivalent to that found in the second semester of high school Spanish I. These activities guide students to express more complex thoughts and understand native language from a variety of culturally authentic sources. Students increase skills in reading, listening comprehension, and vocabulary as they learn sentence patterns and advanced phrases. They learn to identify objects from descriptions, translate to and from Spanish, create stories, and understand and give directions. Vocabulary emphasizes geography, math, plants, animals, and directions, conveyed through increasingly complex poems, stories, and ditties. Grammar topics include object pronouns with finite and infinite verbs, past- and present-tense verbs, action verbs, imperfect tense, participle verb endings, indicative and subjunctive verb forms, and dependent verb clauses. Cultural topics expand to include higher-level content, with special emphasis on the literary and social treasures of Spanish-speaking countries.

Prerequisites: Middle School Spanish 1, or equivalent

Middle School French 1

This multimedia, game-based course for early- to mid-teen beginners in French* turns adventures and activities into rigorous lessons in grammar and vocabulary, with instruction equivalent to that found in the first semester of high school French I. Listening comprehension, oral production, reading, writing, and cultural awareness are all emphasized in accordance with standards formulated by ACTFL (American Council on the Teaching of Foreign Languages). Communication topics include greetings, introductions, relationships, cause and effect, likes and dislikes, and questions. Vocabulary includes common daily adjectives, animals, body parts, family and household words, colors, food, and numbers 1 to 900. Grammar progresses from simple original sentence construction, verb infinitives, and base forms to irregular verbs, Latin-derived cognates, concrete objects and associated verbs, adjectival agreement, and demonstrative pronouns. Cultural topics include the economies, traditions, histories, and political structures of French-speaking nations.

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

Middle School French 2

The solid basis acquired in Middle School French 1 is expanded in this course with instruction equivalent to that found in the second semester of high school French I. Students continue their introduction to French with fundamental building blocks in four key areas of world language study: listening comprehension, speaking, reading, and writing. Students are initially trained to recognize key sounds and basic vocabulary, not

only in written form but also through ear training that leads quickly to oral production. An ongoing adventure story introduces vocabulary and grammar topics, and prompts students to use skills from the four language-learning areas. Students learn fundamental grammar as embedded in authentic spoken language.

Prerequisites: Middle School French 1, or equivalent

Middle School German 1

This course for early- to mid-teen beginners in German* turns adventures and activities into rigorous lessons in grammar and vocabulary, with instruction equivalent to that found in the first semester of high school German I. Students are introduced to the fundamental building blocks in four key areas of world language study: listening comprehension, speaking, reading, and writing. Students are initially trained to recognize key sounds and basic vocabulary, not only in written form but also through ear training that leads quickly to oral production. An ongoing adventure story introduces vocabulary and grammar topics, and prompts students to use skills from the four language-learning areas. Students learn fundamental grammar as embedded in authentic spoken language.

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

Middle School German 2

The solid basis acquired in Middle School German 1 is expanded in this course with instruction equivalent to that found in the second semester of high school German I. In this continuing introduction to German, students deepen their focus on four key skills in world language acquisition: listening comprehension, speaking, reading, and writing. A continuing storyline introduces and reinforces new vocabulary, while activities prompt students to analyze meaning from context, and then to reproduce new vocabulary items in functional real-life oral expression. Additional verb tenses and idiomatic expressions are also introduced. As in German 1, students learn grammar through supplemental texts that supply traditional charts, tables, and explanations.

Prerequisites: Middle School German 1, or equivalent

Middle School Latin 1

This course for early- to mid-teen beginners in Latin* transforms a “dead” language into a living one, with instruction equivalent to that found in the first semester of high school Latin I. Students learn the fundamental building blocks of world language study: listening comprehension, speaking, reading, and writing. Each unit consists of a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, and cultural presentations covering significant aspects of Roman culture, and assessments. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

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

Middle School Latin 2

This course for early- to mid-teen beginners in Latin* expands on skills learned in the first-year course, with instruction equivalent to that found in the second semester of high school Latin I. Students continue building the fundamentals: listening comprehension, speaking, reading, and writing. Each unit consists of a new vocabulary theme and grammar concept; numerous interactive games reinforcing vocabulary and grammar; reading and listening comprehension activities; speaking and writing activities; cultural presentations covering significant aspects of Roman culture; and assessments. The course has been carefully aligned to national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages).

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

Prerequisites: Middle School Latin 1, or equivalent

Middle School Chinese 1

Students use compelling stories, games, videos, and multimedia experiences in this introduction to Mandarin Chinese, with instruction equivalent to that found in the first semester of high school Chinese I. They learn the elegant simplicity of Chinese grammar and the subtleties of Chinese pronunciation through entertaining lessons that give a base of conversational ability and listening comprehension. Students build a foundation for reading and writing in the Chinese language through an adaptive technology that lets them choose an approach that works best for them. Engaging graphics, videos, and games keep students interested, and make learning a new language exciting.

Middle School Chinese 2

Students use compelling stories, games, videos, and multimedia experiences in this continuing introduction to Mandarin Chinese, with instruction equivalent to that found in the second semester of high school Chinese I. They learn the elegant simplicity of Chinese grammar and the subtleties of Chinese pronunciation through entertaining lessons that give a base of conversational ability and listening comprehension. Students build a foundation for reading and writing in the Chinese language through an adaptive technology that lets them choose an approach that works best for them. Engaging graphics, videos, and games keep students interested, and make learning a new language exciting.

Prerequisites: Middle School Chinese 1, or equivalent

Introduction to Online Learning

Families begin the school year with an Introduction to Online Learning course targeted to grades 6–8. The courses provide 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 K12. Course offerings may vary at K12-powered schools.

ENGLISH & LANGUAGE ARTS

Language Arts K (Blue) E N
Language Arts 1 E
Language Arts 2 (Orange) E N
Language Arts 3
Language Arts 4
Language Arts 5
Intermediate English A
Intermediate English B
Literary Analysis and Composition
MARK[12] Reading I (Remediation) A
MARK[12] Reading II (Remediation) A
MARK[12] Reading III (Remediation) A

MATH

Math+ K (Blue) A
Math+ 1 (Green) A
Math+ 2 (Orange) A
Math+ 3 (Purple) A
Math+ 4 (Red) A
Math+ 5 (Yellow) A
Fundamentals of Geometry and Algebra E
Pre-Algebra E
Algebra E

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

HISTORY & SOCIAL SCIENCES

History K
History 1
History 2
History 3
History 4
American History A E
American History B E
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

ORIENTATION

Introduction to Online Learning Grades K–2
Introduction to Online Learning Grades 3–5
Introduction to Online Learning Grades 6–8

A = adaptive learning technology
E = eBook(s) included
N = new course

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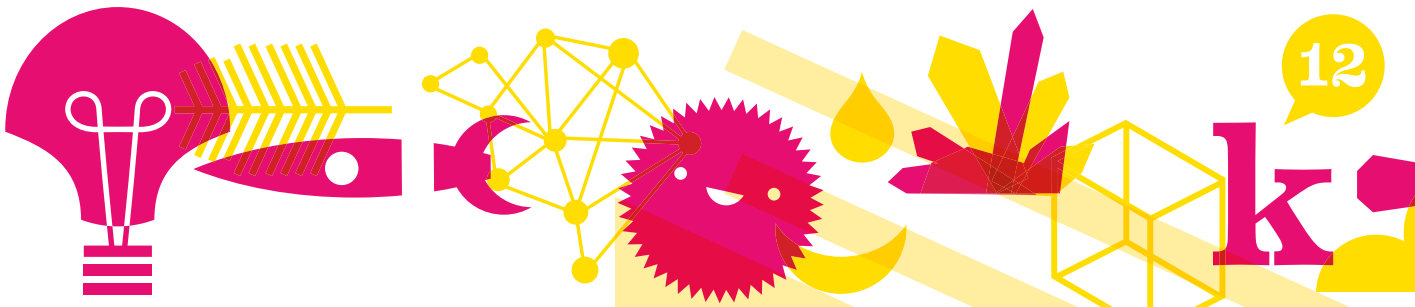

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High

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-APL: 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. Formative assessments identify areas of weakness, lessons are prescribed to improve performance, and summative assessments track progress and skill development. If needed, students can continue their remediation of reading and writing skills with English Foundations II.

Course Length: Two semesters
Prerequisites: Teacher/school counselor recommendation

ENG011-APL: 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. Formative assessments identify areas of weakness, lessons are prescribed to improve performance, and summative assessments track progress and skill development.

Course Length: Two semesters
Prerequisites: Teacher/school counselor recommendation; ENG001-APL: 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; Classics for Young Readers, Volume 8: An Audio Companion; 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; Classics for Young Readers, Volume 8: An Audio Companion; 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: Success in K[12] Intermediate English A and B (or equivalent) and teacher/school counselor recommendation

Note: Students who have already succeeded in K[12] 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.

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, 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, Volume B; Journeys in Literature: Classic and Modern, Volume B: An Audio Companion; 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, Volume B; Journeys in Literature: Classic and Modern, Volume B: An Audio Companion; Vocabulary for Achievement, Fourth Course; Macbeth* by William ShakespearePrerequisites
Prerequisites: Success in 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: *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: *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: Success in 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: ENG304: 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
Materials: *The Norton Reader: An Anthology of Nonfiction,* 12th ed.; *Writing: A College Handbook,* 5th ed.
Prerequisites: Success in 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
Materials: Required (both semesters): *The Norton Anthology of Poetry,* 5th ed.; *The Story and Its Writer: An Introduction to Short Fiction,* compact 7th ed.Required (first semester): *Their Eyes Were Watching God* by Zora Neale Hurston; *Hedda Gabler* by Henrik Ibsen; *A Streetcar Named Desire* by Tennessee Williams; *Twelfth Night* by William Shakespeare Required (second semester): *The Great Gatsby* by F. Scott Fitzgerald; *Annie John* by Jamaica Kincaid; *Jane Eyre* by Charlotte Brontë
Prerequisites: Success in 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
Prerequisites: None

ENG020: Public Speaking (Elective)

Students are introduced to public speaking as an important component of their academic, work, and social lives. They develop skills as public speakers by planning, organizing, writing, and delivering speeches on topics of their choosing. They learn to be fair and critical listeners, give and respond to feedback, and incorporate visual and multimedia aids. They also learn about the ethics of public speaking and techniques for managing communication anxiety.

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

ENG030-AVT: Creative Writing (Elective)

In this course, students explore a range of creative writing genres, including fiction, poetry, creative nonfiction, drama, and multimedia writing. They study examples of classic and contemporary selections, apply what they learn to their own writing, and develop proficiency in the writing process. They learn to evaluate the writings of others and apply evaluation criteria to their own work. By the end of the course, students will have created a well-developed portfolio of finished written works.

Course Length: Two semesters
Prerequisites: None

MTH001-APL: 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. Formative assessments identify areas of weakness and prescribe lessons to improve performance. Summative assessments track progress and skill development. 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
Prerequisites: Teacher/school counselor recommendation

MTH011-APL: 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. Formative assessments identify areas of weakness and prescribe lessons to improve performance. Summative assessments track progress and skill development. This course is appropriate for use as remediation at the high school level or as a bridge to high school.

Course Length: Two semesters
Prerequisites: Teacher/school counselor recommendation; MTH001-APL: Math Foundations I is not required

MTH322-AVT: Consumer Math (Core)

Students can apply this comprehensive review and study of arithmetic skills to both personal and vocational business opportunities. Topics include whole numbers, fractions, percentages, basic statistics, and graphs. Students are shown practical applications for what they have learned in their personal lives, including home and car ownership, wages and taxes, budgeting, banking, and credit.

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

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: Reference Guide and Problem Sets*
Prerequisites: MTH112: Pre-Algebra (or equivalent)

Note: Students who have already succeeded in K[12] 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: Reference Guide and Problem Sets*
Prerequisites: K[12] Pre-Algebra, MTH113: Pre-Algebra (or equivalents)

Note: Students who have already succeeded in K[12] 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: Reference Guide and Problem Sets*
Prerequisites: Success in previous math course and teacher/school counselor recommendation

Note: Students who have already succeeded in K12 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: Reference Guide and Problem Sets*
Prerequisites: Student previously took the course or its equivalent, but did not receive credit, and teacher/school counselor recommendation

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

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
Prerequisites: MTH122: Algebra I (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 open-ended problems and thinking 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
Prerequisites: MTH123: Algebra I and MTH203: Geometry (or equivalents)

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
Prerequisites: MTH123 or MTH124 (Honors): Algebra I and MTH203 or MTH204 (Honors): Geometry (or equivalents) and teacher/school counselor recommendation

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
Prerequisites: Student previously took the course or its equivalent, but did not receive credit, and teacher/school counselor recommendation

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
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: Reference Guide and Problem Sets*
Prerequisites: MTH 303: Algebra II (or equivalent)

MTH433-AVT: Calculus (Comprehensive)

This course is a comprehensive look at the study of differential and integral calculus concepts including limits, derivative and integral computation, linearization, Riemann sums, the Fundamental Theorem of Calculus, and differential equations. Applications include graph analysis, linear motion, average value, area, volume, and growth and decay models.

Course Length: Two semesters
Materials: Java is needed for the embedded graphing calculator applet (GCalc)
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: Texas Instruments T1-84 Plus graphing calculator
Prerequisites: Success in 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
Prerequisites: Success in MTH304: Honors Algebra II (or equivalent) and teacher/school counselor recommendation

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
Prerequisites: None

MTH332-AVT: Integrated Math (Elective)

Students build the mathematical skills needed to solve problems and reason logically. They learn to communicate their understanding by organizing and clarifying mathematical information, becoming proficient in appropriate mathematical language to clearly represent complex ideas and information. Through online instruction, practice, audio tutorials, Web quests, and interactive games, students reinforce their knowledge and strategies in number sense, geometry, algebra, measurement, probability and statistics, and data interpretation.

Course Length: Two semesters
Prerequisites: None

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
Prerequisites: K^{12} middle school Physical Science (or equivalent)

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
Prerequisites: Student previously took the course or its equivalent, but did not receive credit, and teacher/school counselor recommendation

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.

Course Length: Two semesters
Materials: *Earth Science: A Reference Guide*
Prerequisites: K[12] middle school Earth Science (or equivalent)

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: K[12] middle school Life Science (or equivalent)

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: K[12] middle school Life Science (or equivalent), success in previous science course, and teacher/school counselor recommendation

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: K[12] 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: K[12] 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: K[12] 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: K[12] 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 K[12] 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; Chemistry: A Laboratory Guide*
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.

Course Length: Two semesters
Materials: *Chemistry: Problems and Solutions*

Prerequisites: Student previously took the course or its equivalent, but did not receive credit, and teacher/school counselor recommendation

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)

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 or MTH304 (Honors): Algebra II and MTH403: Pre-Calculus/Trigonometry (or equivalents) 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: Success in SCI204: Honors Biology, SCI304: Honors Chemistry, SCI124: Honors Algebra I (or equivalents), and teacher/school counselor recommendation required; success in SCI304: 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 first 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 and to widely used textbooks.

Course Length: Two semesters
Materials: *Inquiries into Chemistry by Abraham and Pavelich, 3rd ed.; Texas Instruments T1-84 Plus graphing calculator or one of similar capabilities and—if hands-on labs are required—materials for lab experiments must be acquired by students*
Prerequisites: Success in SCI304: Honors Chemistry and MTH304: Honors Algebra II (or equivalents), and teacher/school counselor recommendation

SCI520: AP Physics B

This course is the equivalent of an introductory college-level survey course, but does not require proficiency in calculus. Students focus on five general areas: Newtonian mechanics, thermal physics, electricity and magnetism, waves and optics, and atomic and nuclear physics. Students gain an understanding of the core principles of physics and then apply them to problem-solving exercises. They learn how to measure the mass of a planet without weighing it, find out how electricity makes a motor turn, and learn how opticians know how to shape lenses for glasses. Students prepare for the AP exam and for further study in science and engineering.

Course Length: Two semesters
Materials: *Schaum's Outline of College Physics by Bueche and Hecht, 10th ed.; Texas Instruments T1-84 Plus graphing calculator or one of similar capabilities and—if hands-on labs are required—materials for lab experiments must be acquired by students*
Prerequisites: Success in MTH304: Honors Algebra II, MTH403: Pre-Calculus/ Trigonometry (or equivalents), and teacher/school counselor recommendation

SCI530-AVT: AP Environmental Science

This course—the equivalent of an introductory college-level course—examines the interrelationships of the natural world. Students identify and analyze environmental problems and their effects, and evaluate the effectiveness of proposed solutions. They learn to think like environmental scientists: making predictions based on observations, writing hypothesis, designing and completing field studies and experiments, and reaching conclusions based on the analysis of data derived from these experiments. Students apply the concepts of environmental science to their everyday experiences and current issues in science, politics, and society. Students participate in guided inquiry, student-centered learning, and critical thinking, and leave the course prepared for the AP exam and further study in environmental science.

Course Length: Two semesters
Materials: *Living in the Environment: Principles, Connections, and Solutions,* 16th ed

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, 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
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
Prerequisites: Successful completion of at least two years of high school science including SCI203: Biology (or equivalent); SCI303: Chemistry is highly recommended

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 K^{12}. 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: K^{12} 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
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: HST102: World History, K[12] 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: HST103: World History, K[12] 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: HST103: World History, K[12] 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; teacher/school counselor recommendation required

HST212: Geography and World Cultures (Core)

This one-semester course introduces students to the countless ways in which geography influences human relationships, politics, society, economics, science, technology, and the arts. Special emphasis is placed on the way geographically derived information is expressed in maps, charts, and graphs in order to teach students how to analyze and create such documents.

Course Length: One semester
Prerequisites: HST102: World History (or equivalent) is recommended, but not required

HST213: Geography and World Cultures (Comprehensive)

This one-semester course uses geographic features to explore how human relationships, political and social structures, economics, science, technology, and the arts have developed and influenced life in countries around the world. Throughout the course, students learn how to read maps, charts, and graphs rigorously and critically—and how to create them. Examining the intersection of culture and geography, students discover how a mountain in the distance can inspire national policymakers, civil engineers, or poets; how a river triggers the activity of bridge builders, shipbuilders, and merchants alike; and how the sound of a busy Cairo street can inspire sociologists and musicians. Students come to understand how the drama of human history and cultural encounters—affecting land, natural resources, religious dominance, and more—is played out on the geographical stage

Course Length: One semester
Prerequisites: HST103: World History (or equivalent) is recommended, but not required

HST216-AVT: 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
Prerequisites: Student previously took the course or its equivalent, but did not receive credit; teacher/school counselor recommendation required

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 time lines, 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, or HST203 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 foreign 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, 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: K[12] middle school American History A and American History B (or equivalents) and teacher/school counselor recommendation

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
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.

Course Length: One semester
Prerequisites: HST303: U.S. History (or equivalent) is recommended, but not required

HST406-AVT: American Government (Credit Recovery)

This course is the study of the historical backgrounds, governing principles, and institutions of the government of the United States. The focus is on the principles and beliefs upon which the United States was founded and on the structure, functions, and powers of government at the national level. The principles of popular sovereignty, separation of powers, checks and balances, republicanism, federalism, and individual rights are examined as well as 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 system. 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: One semester
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
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
Prerequisites: HST403: U.S. Government and Politics (or equivalent) is recommended, but not required

HST416-AVT: Economics (Credit Recovery)

Students are introduced to the basics of economic principles, and learn how to think like an economist. They explore different economic systems, including the American free enterprise system, analyze and interpret data, and consider economic applications in

today's world. From economics in the world of business, money, banking, and finance, students see how economics is applied both domestically and globally. 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: One semester
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. Students prepare for the AP exam.

Course Length: Two semesters
Materials: *America: A Narrative History* by Tindall et al., 7th ed.
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
Materials: *The Lanahan Readings in the American Polity,* 4th ed.; *American Government* by Lowi et al., 10th ed.
Prerequisites: Success in 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
Materials: *Macroeconomics for Today,* 4th Ed., ISBN: 0-324-30197-9
Prerequisites: Success in 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
Materials: *Microeconomics for Today,* 4th Ed., ISBN: 0-324-30192-8
Prerequisites: Success in 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 ed.
Prerequisites: Success in SCI204: Honors Biology (or equivalent) and teacher/school counselor recommendation

HST550: AP European History

This course is the equivalent of an introductory college-level course. It explores political, diplomatic, social, economic, cultural, and intellectual themes in European history from 1450 to the present. Students cultivate higher-order thinking and writing skills that are assessed through essays, various writing activities, quizzes, and tests. They apply their historical analysis during threaded discussions, mock trials, and an Enlightenment Salon. The course scope and rigor helps prepare students for the AP European History Exam along with further study in the humanities.

Course Length: Two semesters
Prerequisites: Success in previous history course 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.

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

HST010-APL: 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
Prerequisites: HST103: World History (or equivalent) recommended as a prerequisite or co-requisite, but not required

HST020-AVT: Psychology (Elective)

In this introductory course, students explore why people think and act the way they do. Topics include key terms, the major concepts and theories of psychology, and ethical standards that govern psychological research. Students develop critical thinking skills to evaluate theories and current research, learn how psychological principles apply to their own lives, and build on reading, writing, and discussion skills.

Course Length: One semester
Prerequisites: None

HST030-AVT: Economics (Elective)

Economics is the study of how societies use limited resources to satisfy their unlimited wants and needs. It is the foundation of this course as students learn how fundamental decisions about the four factors of production—land, labor, capital, and entrepreneurship—are made. Key topics covered include: law of supply and demand, saving, borrowing, and spending, the Federal Reserve System and the money supply, and the role of government in an open market economy.

Course Length: One semester
Prerequisites: None

HST040-AVT: Civics (Elective)

This course provides the learner with a basic understanding of civic life, politics, and government. It covers a short history of the foundation and development of government, the rights that the American government guarantees its citizens, and a survey of the duties and responsibilities American citizens must exercise in order to maintain their government. It introduces the workings of our political systems; the relationship of city, state, and national governments; and the history and advantages of America's two political parties.

Course Length: One semester
Prerequisites: None

HST050-AVT: Sociology (Elective)

This course offers a study of human relationships in society. Students explore concepts of society, culture, and social structure. They examine social institutions, including families, religion, and education; and investigate the influence of government and economic systems. They study development over childhood, adolescence, and the adult years. They also examine social problems, including discrimination, poverty, and crime.

Course Length: Two semesters
Prerequisites: None

HST222-AVT: Contemporary World Issues (Elective)

In this course, students address modern global issues. They begin with the perspective of the United States, then compare it with views from the international community, including Eastern Europe, Asia, Africa, South America, and the Middle East. Students apply reasoning and research skills to analysis of global economies, politics, cultures, religions, the environment, technology and industry, and human and civil rights. Through this course, they come to understand both the challenges and the hope for progress in the modern world.

Course Length: Two semesters
Prerequisites: None

WLG100: Spanish I

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

Course Length: Two semesters
Materials: *Vox Everyday Spanish and English Dictionary*

Note: Students who have already succeeded in middle school Spanish 2 should enroll in Spanish II rather than in Spanish I.

WLG106-AVT: Spanish I (Credit Recovery)

This course provides students with instruction in the basics of learning the language of Spanish. The course also introduces basic and stem-changing verbs and their formation and use in the present tense. Students learn about interrogatives, question formation, adjectives, possessives, prepositions, and other grammatical structures. Students also become acquainted with the Spanish-speaking countries of the world and their cultures. Students take diagnostic tests that assess their current knowledge and generate individualized study plans, so students can focus on topics that need review.

Course Length: Two semesters
Prerequisites: Student previously took the course or its equivalent, but did not receive credit, and teacher/school counselor recommendation

WLG200: Spanish II

In this continuing introduction to Spanish, students deepen their focus on four key skills in world language acquisition: listening comprehension, speaking, reading, and writing. A continuing storyline introduces and reinforces new vocabulary, while activities prompt students to analyze meaning from context, and then to reproduce new vocabulary in real-life oral expression. Additional verb tenses and idiomatic expressions are also introduced. As in Spanish I, students learn grammar through supplemental texts that supply traditional charts, tables, and explanations. Cultural information addresses Spanish as it is used around the globe. Engaging graphics, videos, and games keep students interested, and make learning languages exciting.

Course Length: Two semesters
Materials: *Vox Everyday Spanish and English Dictionary*
Prerequisites: WLG100: Spanish I, middle school Spanish 1 and 2 (or equivalents)

WLG300: Spanish III

Intermediate Spanish students who have a strong base of vocabulary, speaking, and listening skills reach a new level of mastery and fluency in this course. Through games and compelling stories, students learn advanced grammar and vocabulary, with an emphasis on correct accents and comprehension of real-world native speech. Error-recognition technology helps students eliminate common mistakes from their speaking and writing. Engaging graphics, videos, and games keep students interested, and make learning languages exciting.

Course Length: Two semesters
Materials: *Vox Everyday Spanish and English Dictionary*
Prerequisites: WLG200: Spanish II (or equivalent)

WLG400-AVT: Spanish IV

Students continue to sharpen listening, speaking, reading, and writing skills. They learn to express themselves using an ever-increasing vocabulary, present- and past-tense verbs, articles, and adjectives. Grammar is introduced and practiced with a variety of

learning styles in mind. Throughout the course, students experience the culture, people, geographical locations, and histories of the Spanish-speaking world.

Course Length: Two semesters
Materials: Computer speakers; microphone; *Vox Everyday Spanish and English Dictionary*
Prerequisites: WLG300: Spanish III (or equivalent)

WLG500: AP Spanish Language

In AP Spanish Language, students perfect their Spanish speaking, listening, reading, and writing skills. They study vocabulary, grammar, and cultural aspects of the language, and apply what they've learned in extensive written and spoken exercises. By the end of the course, students will have an expansive vocabulary and a solid working knowledge of all Spanish verb forms and tenses. The equivalent of a college-level language course, AP Spanish Language prepares students for the AP exam and for further study of Spanish language, culture, and literature.

Course Length: Two semesters
Materials: Computer speakers; microphone; *Vox Everyday Spanish and English Dictionary*
Prerequisites: Strong success in WLG300: Spanish III, or success in WLG400-AVT: Spanish IV (or equivalents), and teacher/school counselor recommendation

WLG110: French I

Students begin their introduction to French with fundamental building blocks in four key areas of world language study: listening comprehension, speaking, reading, and writing. Students are initially trained to recognize key sounds and basic vocabulary, not only in written form but also through ear training that leads quickly to oral production. An ongoing adventure story introduces vocabulary and grammar topics, and prompts students to use skills from the four language-learning areas. Students learn fundamental grammar as embedded in authentic spoken language. Engaging graphics, videos, and games keep students interested, and make learning languages exciting.

Course Length: Two semesters
Materials: *Larousse Student French-English/English-French Dictionary*
Prerequisites: None

Note: Students who have already succeeded in middle school French 2 should enroll in French II rather than in French I.

WLG210: French II

In this continuing introduction to French, students deepen their focus on four key skills in world language acquisition: listening comprehension, speaking, reading, and writing. A continuing storyline introduces and reinforces new vocabulary, while activities prompt students to analyze meaning from context, and then to reproduce new vocabulary items in functional real-life oral expression. Additional verb tenses and idiomatic expressions are also introduced. As in French I, students learn grammar through supplemental texts that supply traditional charts, tables, and explanations. Engaging graphics, videos, and games keep students interested, and make learning languages exciting.

Course Length: Two semesters
Materials: *Larousse Student French-English/English-French Dictionary*
Prerequisites: WLG110: French I, middle school French 1 and 2 (or equivalents)

WLG310: French III

Intermediate French students who have a strong base of vocabulary, speaking, and listening skills reach a new level of mastery and fluency in this course. Through games and compelling stories, students learn advanced grammar and vocabulary, with an emphasis on correct accents and comprehension of real-world native speech. Error-recognition technology helps students eliminate common mistakes from their speaking and writing. Engaging graphics, videos, and games keep students interested, and make learning languages exciting.

Course Length: Two semesters
Materials: *Larousse Student French-English/English-French Dictionary*
Prerequisites: WLG210: French II (or equivalent)

WLG410-AVT: French IV

Students continue to sharpen listening, speaking, reading, and writing skills. They learn to express themselves using an expanding vocabulary; present, past, future and conditional verbs; articles; adjectives; and increasingly complex grammatical structures. Grammar is introduced and practiced with a variety of learning styles in mind. Throughout the course, students experience the culture, people, geographical locations, and histories of the French-speaking world.

Course Length: Two semesters
Materials: Computer speakers; microphone; *Larousse Student French-English/English-French Dictionary*
Prerequisites: WLG310: French III (or equivalent)

WLG510: AP French Language

In AP French Language, students apply their French grammar and vocabulary knowledge and their listening, reading, speaking, and writing skills to a wide variety of real-world contexts. Students learn to speak fluently and accurately, write sophisticated compositions, and comprehend native speakers. The equivalent of a college-level language course, AP French Language prepares students for the AP exam and for further study of French language, culture, and literature.

Course Length: Two semesters
Materials: *Larousse Student French-English/English-French Dictionary*
Prerequisites: Strong success in WLG310: French III, or success in WLG410-AVT: French IV (or equivalents), and teacher/school counselor recommendation

WLG120: German I

Students begin their introduction to German with fundamental building blocks in four key areas of world language study: listening comprehension, speaking, reading, and writing. Students are initially trained to recognize key sounds and basic vocabulary, not only in written form but also through ear training that leads quickly to oral production. An ongoing adventure story introduces vocabulary and grammar topics, and prompts students to use skills from the four language-learning areas. Students learn fundamental grammar as embedded in authentic spoken language. Engaging graphics, videos, and games keep students interested, and make learning languages exciting.

Course Length: Two semesters

Materials: *Larousse German Dictionary*
Prerequisites: None

Note: Students who have already succeeded in middle school German 2 should enroll in German II rather than in German I.

WLG220: German II

In this continuing introduction to German, students deepen their focus on four key skills in world language acquisition: listening comprehension, speaking, reading, and writing. A continuing storyline introduces and reinforces new vocabulary, while activities prompt students to analyze meaning from context, and then to reproduce new vocabulary items in functional real-life oral expression. Additional verb tenses and idiomatic expressions are also introduced. As in German I, students learn grammar through supplemental texts supplying traditional charts, tables, and explanations. Engaging graphics, videos, and games keep students interested, and make learning languages exciting.

Course Length: Two semesters
Materials: *Larousse German Dictionary*
Prerequisites: WLG120: German I, middle school German 1 and 2 (or equivalents)

WLG320-AVT: German III

Students build on their German-language skills, learning vocabulary and grammatical concepts to participate in meaningful conversations. They learn cultural information about numerous aspects of life (present and past) in German-speaking countries. Course strategies include warm-up activities, vocabulary study, reading, threaded discussions, multi-media presentations, self-checks, practice activities and games, oral and written assignments, projects, quizzes, and exams.

Course Length: Two semesters
Materials: Computer speakers; microphone; *Larousse German Dictionary*
Prerequisites: WLG220: German II (or equivalent)

WLG420-AVT: German IV

Students continue to sharpen their reading, writing, and listening skills. They practice critical thinking and express themselves on topics relevant to German culture. They learn vocabulary, grammar skills, and cultural competency to express themselves on a variety of topics in German. The course includes authentic texts, current culture, and literature from Germany, Austria, and Switzerland. Throughout the course, students learn about German history and multiculturalism as well as German scientists, artists, writers, and inventors.

Course Length: Two semesters
Materials: Computer speakers; microphone; *Larousse German Dictionary*
Prerequisites: WLG320-AVT: German III (or equivalent)

WLG130: Latin I

This introduction to Latin clarifies the traditionally difficult aspects of the language through vocabulary that follows all standard Latin rules but allows students to tell modern stories connected to a contemporary adventure. Students study familiar vocabulary so they can bring into focus the special characteristics of Latin, notably noun cases and declensions. They receive ongoing practice in vocabulary and grammar, which

leads to the study of post-Classical Latin, both ecclesiastical and secular, as embodied in the Vulgate Bible and medieval Latin texts. Engaging graphics, videos, and games keep students interested, and make learning languages exciting.

Course Length: Two semesters
Materials: *Bantam New College Latin & English Dictionary*
Prerequisites: None

WLG230: Latin II

Students with a foundation in Latin refine their skills through compelling language lessons, as well as historical and cultural studies. They go from the basics of Latin to a higher level of sophistication through a learning methodology that uses games and stories. Students concentrate on fostering their ability to read and understand (without using a dictionary) classical Latin from a variety of authentic sources. Engaging graphics, videos, and games keep students interested, and make learning languages exciting.

Course Length: Two semesters
Materials: *Bantam New College Latin & English Dictionary*
Prerequisites: WLG130: Latin I (or equivalent)

WLG140: Chinese I

Students use compelling stories, games, videos, and multimedia experiences in this introduction to Mandarin Chinese. They learn the elegant simplicity of Chinese grammar and the subtleties of Chinese pronunciation through entertaining lessons that give a base of conversational ability and listening comprehension. Students build a foundation for reading and writing in the Chinese language through an adaptive technology that lets them choose an approach that works best for them. Engaging graphics, videos, and games keep students interested, and make learning languages exciting.

Course Length: Two semesters
Materials: *Oxford Beginner's Chinese Dictionary*
Prerequisites: None

Note: Students who have already succeeded in middle school Chinese 2 should enroll in Chinese II rather than in Chinese I.

WLG240: Chinese II

Students continue with engaging stories, games, videos, and multimedia experiences in this second level of Mandarin Chinese. Students further their understanding of Chinese grammar and pronunciation through lessons refining previous practice of conversational ability and listening comprehension. Innovative cultural videos and lessons build awareness of the rich legacy of Chinese culture. Students expand their foundation for reading and writing in Chinese through adaptive technology, providing opportunities to generate fun narratives, a range of well-formed sentences reflecting a solid grasp of grammar structures, and a wide vocabulary. Engaging graphics, videos, and games keep students interested, and make learning languages exciting.

Course Length: Two semesters
Materials: *Oxford Beginner's Chinese Dictionary*
Prerequisites: WLG140: Chinese I, middle school Chinese 1 and 2 (or equivalents)

WLG150-AVT: Japanese I

This beginning-level course introduces students to listening, speaking, reading, and writing skills through activities that are based on pedagogically proven methods of foreign language instruction. Students learn to express themselves using an ever-increasing vocabulary, present-form verbs, particles, and adjectives. Grammar is introduced and practiced with a variety of learning styles in mind. Cultural information in the course teaches students about Japanese culture, people, society, and history.

Course Length: Two semesters
Materials: Computer speakers; microphone; *Oxfords Japanese Dictionary*
Prerequisites: None

WLG250-AVT: Japanese II

This course focuses on successful communication through speaking, writing, reading, and listening, as well as a thorough grounding in aspects of culture. Unit activities blend different forms of communication and culture. Course strategies include warm-up activities, vocabulary study, reading, threaded discussions, multi-media presentations, self-checks, practice activities and games, oral and written assignments, projects, quizzes, and exams.

Course Length: Two semesters
Materials: Computer speakers; microphone; *Oxfords Japanese Dictionary*
Prerequisites: WLG150-AVT: Japanese I (or equivalent)

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 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

ART500-AVT: AP Art History (Elective)

This course—the equivalent of an introductory college-level course—fosters in students an understanding and knowledge of architecture, sculpture, painting, and other art forms within diverse historical and cultural contexts. They examine and critically analyze major forms of artistic expression, past and present, from a variety of cultures. They also learn to understand works in context, considering such issues as patronage, gender, and the functions and effects of works of art. Students leave this course prepared for the AP exam and for further study in art history.

Course Length: Two semesters
Prerequisites: Teacher/school counselor recommendation; prior art training is not required

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
Prerequisites: None

MTH342 -AVT: Accounting (Elective)

In this course, students with no prior training learn fundamental accounting skills, building an appreciation for the role of accounting in managing a profitable business. They are given an overview of financial, cost, and management accounting; learn the basic concepts, conventions and rules of the double entry system; and practice techniques to analyze ratios from the balance sheet. The concepts of ethics, integrity, and confidentiality are woven in throughout the course. Student complete this course with the skills needed for college accounting courses—essential for Business majors—office work, or managing their own small businesses.

Course Length: Two semesters
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
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
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
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
Prerequisites: BUS060: Introduction to Marketing I (or equivalent)

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
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

HST010-APL: 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
Prerequisites: HST103: World History (or equivalent) recommended as a prerequisite or co-requisite, but not required

HST020-AVT: Psychology (Elective)

In this introductory course, students explore why people think and act the way they do. Topics include key terms, the major concepts and theories of psychology, and ethical standards that govern psychological research. Students develop critical thinking skills to evaluate theories and current research, learn how psychological principles apply to their own lives, and build on reading, writing, and discussion skills.

Course Length: One semester
Prerequisites: None

HST030-AVT: Economics (Elective)

Economics is the study of how societies use limited resources to satisfy their unlimited wants and needs. It is the foundation of this course as students learn how fundamental decisions about the four factors of production; land, labor, capital, and entrepreneurship are made. Key topics covered include: law of supply and demand, saving, borrowing, and spending, the Federal Reserve System and the money supply, and the role of government in an open market economy.

Course Length: One semester
Prerequisites: None

HST040-AVT: Civics (Elective)

This course provides the learner with a basic understanding of civic life, politics, and government. It covers a short history of the foundation and development of government, the rights that the American government guarantees its citizens, and a survey of the duties and responsibilities American citizens must exercise in order to maintain their government. It introduces the workings of our political systems; the relationship of city, state, and national governments; and the history and advantages of America's two political parties.

Course Length: One semester
Prerequisites: None

HST050-AVT: Sociology (Elective)

This course offers a study of human relationships in society. Students explore concepts of society, culture, and social structure. They examine social institutions, including families, religion, and education; and investigate the influence of government and economic systems. They study development over childhood, adolescence, and the adult years. They also examine social problems, including discrimination, poverty, and crime.

Course Length: Two semesters
Prerequisites: None

HST222-AVT: Contemporary World Issues (Elective)

In this course, students address modern global issues. They begin with the perspective of the United States, then compare it with views from the international community, including Eastern Europe, Asia, Africa, South America, and the Middle East. Students apply reasoning and research skills to analysis of global economies, politics, cultures, religions, the environment, technology and industry, and human and civil rights. Through this course, they come to understand both the challenges and the hope for progress in the modern world.

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

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
Prerequisites: None

OTH016-AVT: Health (Credit Recovery)

Students learn to make healthy personal decisions, studying physical and mental health. Topics include nutrition, safety, technological advances in physical health, common mental health disorders and treatments, the dangers of substance abuse, and common infectious and non-infectious diseases. Students leave the course with the knowledge needed for life-long health. 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: One semester
Prerequisites: Student previously took the course or its equivalent, but did not receive credit, and teacher/school counselor recommendation

OTH080-AVT: Nutrition and Wellness (Elective)

This course introduces students to good nutrition principles needed for physical and mental wellness. Topics include good nutrition; food safety; digestion, absorption, and metabolism; how major nutrients are processed in the body; basic components of carbohydrates, proteins, and fats; the roles of vitamins, minerals, and fluids; physical fitness and athletic performance; stress; and wellness and nutrition principles throughout the human life cycle. Application to today's food and eating trends plus learning to assess for reliable nutrition information are emphasized.

Course Length: One semester
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)
Prerequisites: None

OTH026-AVT: Physical Education (Credit Recovery)

In this course, students explore diverse activities and learn a variety of fitness concepts that they can use in their everyday life. They learn about physical fitness and how their body works by studying static and dynamic balance, linear and rotary motion, anatomy and biomechanics. Lifelong sport and activity skills and stress management concepts are also taught. Students conduct cardiorespiratory activities and routines, set and work on personal fitness goals, and learn to care for their health. Students complete this course with the knowledge to stay fit and active for a lifetime. 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: One semester
Prerequisites: Student previously took the course or its equivalent, but did not receive credit, and teacher/school counselor recommendation

OTH070-AVT: Driver Education (Elective)

This course is a foundation of theory for responsible driving. Emphasis is placed upon mechanics of driving, execution of driving operations and rules of safe driving. Topics include signs, signals, and markings; rules of the road; basic driving skills; driving environments; responding to an emergency; car systems and maintenance; and safety.

Course Length: One semester
Prerequisites: None

OTH090-AVT: Life Skills (Elective)

Students learn essential skills for everyday living. The course emphasizes defining personal values, goal-setting and planning, making decisions and solving problems, evaluating information, dealing with media and peer pressure, communication and relationships, wellness and personal safety, and contributing to the community.

Course Length: One semester
Prerequisites: None

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
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
Prerequisites: None

OTH060-AVT: 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 lifespan and the contributions to the well-being of the family and the community.

Course Length: One semester
Prerequisites: None

TCH010: Computer Literacy (Elective)

Today's students must be able to effectively use technology to research, organize, create, and evaluate information. This course provides a foundation in the skills and concepts that define computer literacy in the twenty-first century. From the basics of keyboarding to Internet research techniques, document creation, and digital citizenship, students practice essential skills through hands-on projects.

Course Length: One semester
Software: OpenOffice.org (free download provided in course); Mozilla Firefox
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

TCH030: Image Design and Editing (Elective)

This is the perfect course for anyone who wants to create compelling, professional looking graphic designs and photos. Students learn the basics of composition, color, and layout before moving on to technical topics like working with layers and masks, adding special effects, and effectively using typefaces to create visual impact. At the end of this course, students will have a variety of original projects for their graphic design portfolio.

Course Length: One semester
Software: GIMP (free download)
System Requirements: Microsoft Windows XP, Windows Vista, or Mac OS X operating system; 400 MHz or faster processor; 512 MB of memory (RAM); at least 2 GB of available hard drive space
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. Through real-world design scenarios and hands-on projects, students create compelling, usable websites using the latest suite of free tools from Microsoft.

Course Length: One semester
Software: KompoZer (free download) and GIMP (free download)
System Requirements: Microsoft Windows XP, Windows Vista, or Mac OS X operating system; 400 MHz or faster processor (must have a PowerPC processor, not Intel, for Mac OS X); 512 MB of memory (RAM); at least 2 GB of available hard drive space
Prerequisites: None

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 C++ 2008, students master the building blocks of programming: functions, variables, loops, arrays, and classes.

Course Length: One semester
Software: Microsoft Visual C++ 2008 Express (free download provided in course)
System Requirements: Microsoft Windows XP Service Pack 2 or Service Pack 3; Windows Vista or Windows Vista SP1, or Windows 7 operating system; 1 GHz or faster processor (1.6 GHz for Vista or Windows 7); 192 MB of memory (RAM) (748 MB for Vista or Windows 7); at least 1 GB of available hard drive space
Prerequisites: None

TCH061-AVT: Programming I—VB.NET (Elective)

Students learn basic programming and the fundamentals of the VisualBasic.net (VB.NET) programming language. They are introduced to its basic uses, its similarities to the English language (and others), and its flexibility. Students also learn the processes involved in software development and object-oriented programming. This introductory course serves as a solid foundation for further study, which could lead to careers such as software engineer, developer, or game designer. Students complete a series of hands-on projects covering built-in data types, operators, control structures, classes, and objects.

Course Length: One semester
Prerequisites: Knowledge of computer fundamentals

TCH062-AVT: Programming II—Java (Elective)

This course introduces Java—its features, techniques, and applications. Students learn the robustness of the program, how it can be used in cross-platform programming, and how to build a stand-alone application, such as a countdown clock or leap year indicator.

At the end of the course, students will be able to write basic programs using Java and could pursue further instruction in any programming language.

Course Length: One semester
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 (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

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 will learn the basics of creating shapes, adding textures and lighting, and rendering. By the end of the course, students will have produced a series of increasingly sophisticated projects for their 3D portfolios. This course is suitable for students with no prior experience with 3D game design or digital media authoring tools.

Course Length: One semester
Software: Blender (free download provided in course)
System Requirements: Microsoft Windows XP, Windows Vista, or Mac OS X 10.2 or higher operating system; 300 MHz or faster processor; 512 MB of memory (RAM); 64 MB of video RAM; OpenGL graphics card with 16 MB RAM; 3-button mouse; 1024 X 768 monitor resolution with 16 bit color; at least 2 GB of available hard drive space
Prerequisites: None

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, they master the basics of animation—rigging, bones, and movement—while learning how to apply traditional animation techniques to their 3D models. They also learn about jobs in the industry.

Course Length: One semester
Software: 3D Art I—Modeling
System Requirements: Microsoft Windows XP, Windows Vista, or Mac OS X 10.2 or higher operating system; 300 MHz or faster processor; 512 MB of memory (RAM); 64 MB of video RAM; OpenGL graphics card with 16 MB RAM; 3-button mouse; 1024 X 768 monitor resolution with 16 bit color; at least 2 GB of available hard drive space
Prerequisites: TCH017: 3D Art I—Modeling (or equivalent)

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
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)

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

TCH500-AVT: AP Computer Science A (Elective)

This course—the equivalent of an introductory college-level course—emphasizes object-oriented programming methodology with a concentration on problem solving and algorithm development. It also includes the study of data structures, design, and abstraction. Students should be prepared to move quickly, and be already comfortable with problem solving, functions, and the uses of functional notation. They are expected to know responsible use of computer systems, including system reliability, privacy, legal issues, intellectual property, and social and ethical ramifications of computer use. Students leave this course prepared for the AP exam and for further study in computer science.

Course Length: Two semesters
Materials: Java; at least 128 MB of memory
Prerequisites: Success in MTH304: Honors Algebra II (or equivalent); previous programming experience, such as an introductory course in C++, Pascal, Visual Basic, or Java; basic understanding of networks; and teacher/school counselor recommendation

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
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 students 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
Prerequisites: None

High School Course List

	Core	Comprehensive	Honors	AP	Remediation	Credit Recovery	Elective
ENGLISH							
English Foundations I (N)					●		
English Foundations II (N)					●		
Literary Analysis and Composition I (E)	●	◆	◆			●	
Literary Analysis and Composition II (E)	●	◆	◆			●	
American Literature (E)	●	◆	◆			●	
British and World Literature (E)	●	◆	◆			●	
AP English Language and Composition				◆			
AP English Literature and Composition				◆			
Journalism*							◆
Public Speaking*							●
Creative Writing (N)							●
MATH							
Math Foundations I (N)					●		
Math Foundations II (N)					●		
Consumer Math (N)	●						
Pre-Algebra (E)	●	●				●	
Algebra I (E)	●	◆	◆			●	
Geometry (E)	●	◆	◆			●	
Algebra II (E)	●	◆	◆			●	
Pre-Calculus/Trigonometry		◆					
Probability and Statistics* (E)		◆					
Calculus		●					
AP Calculus AB				◆			
AP Statistics				◆			
Personal Finance*							●
Integrated Math (N)							●
SCIENCE							
Physical Science (V) (E)	◆					●	
Earth Science (V) (E)	●	◆	◆			●	
Biology (V) (E)	●	◆	◆			●	
Chemistry (V) (E)	●	◆	◆			●	
Physics (V) (E)		◆	◆				
AP Biology				◆			
AP Chemistry				◆			
AP Physics B				◆			
AP Environmental Science				●			
Environmental Science*							◆
Forensic Science* (N) (V) Ω							●
HISTORY & SOCIAL SCIENCES							
World History (E)	●	◆	◆			●	
Modern World Studies (E)	●	◆	◆			●	
Geography and World Cultures*	●	◆				●	
U.S. History (E)	●	◆	◆			●	
Modern U.S. History (E)	●	◆	◆			●	
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 European History (E)				◆			
AP World History				◆			
Anthropology* (N) Ω							◆
Psychology* (N)							◆
Economics* (N)						●	●
Civics*							●
Family and Consumer Science (N)							●
Contemporary World Issues (N)							●
Sociology (N)							●

(N) = new course
(E) = eBook(s) included
Ω = available winter 2013
◆ = NCAA eligible
(V) = includes vLabs (virtual labs)
● = course available
* = one-semester course
All courses, unless otherwise noted, are two semesters

	Core	Comprehensive	Honors	AP	Remediation	Credit Recovery	Elective
WORLD LANGUAGES							
Spanish I		◆				●	
Spanish II		◆					
Spanish III		◆					
Spanish IV		●					
AP Spanish Language				◆			
French I		◆					
French II		◆					
French III		◆					
French IV		●					
AP French Language				◆			
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							●
AP Art History				●			
Introduction to Entrepreneurship I*							●
Introduction to Entrepreneurship II*							●
Introduction to Marketing I*							●
Introduction to Marketing II*							●
Accounting (N)							●
Service Learning*							●
Skills for Health*						●	●
Nutrition and Wellness* (N)							●
Life Skills* (N)							●
Physical Education						●	●
Reaching Your Academic Potential*							●
Achieving Your Career and College Goals*							●
Driver Education* (N)							●
TECHNOLOGY & COMPUTER SCIENCE							
Computer Literacy*							●
Image Design and Editing*							●
Web Design*							●
C++ Programming*							●
Programming I - VB.NET* (N)							●
Programming II - Java* (N)							●
Game Design*							●
3D Art I - Modeling*							●
3D Art II - Animation*							●
Audio Engineering*							●
Green Design and Technology*							●
Digital Arts I*							●
Digital Arts II*							●
Computer Science *							●
Engineering Design / CAD*							●
AP Computer Science A				●			
ORIENTATION							
Online Learning							
Finding Your Path Series I–IV							

Complete list available through K12. Course offerings may vary at K12-powered schools. K12 is approved by the University of California as a provider of "a-g" courses. Nearly 30 of our individual courses have already received approvals and more are now in the approval process. See K12.com/courses for the list.

K–8: K12 offers online courses for grades K–8 across seven disciplines: language arts/English, math, science, history, world languages, art, and music—plus adaptive courses in reading remediation and K–5 math. For a complete listing with full descriptions, visit K12.com/k8curriculum.

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