iCADEMY
MIDDLE EAST
The American Online School

2024 - 2025
COURSE CATALOG
KG - 12

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APPENDIX

LANGUAGE ARTS

KINDERGARTEN LANGUAGE ARTS - A & B

Semester A

The Kindergarten course lays the groundwork for reading and writing. It aims to combine excellent decoding instruction with frequent reading-aloud to ensure that students can translate letters into words and make sense of the words they are decoding.

Skills lessons address decoding skills, focusing on sounds or phonemes as the primary organizing principle, rather than letters. Phonics instruction begins with sounds and then attaches those sounds to spellings. Students build awareness of environmental noises, sounds within words, and words within sentences. As students gain phonological awareness, they progress to blending and segmenting sounds within words. Students are introduced to reading using decodable readers that are engaging and fun. Students learn the mechanics of writing. Starting with pre writing basics, students learn correct grip and the writing strokes used to create letters. Students learn how to "spell the sounds," writing the letters that represent the sounds that they have learned. The course includes daily read-alouds that help students build the background knowledge and vocabulary critical to listening and reading comprehension. Students learn by listening to nursery rhymes, fables, classic tales, and nonfiction texts. While teaching skills in reading, writing, listening, and speaking, the course also builds students' knowledge and vocabulary in literature, history, geography, and science.

Semester B

The Kindergarten course lays the groundwork for reading and writing. It aims to combine excellent decoding instruction with frequent reading-aloud in order to ensure that students can translate letters into words and make sense of the words they are decoding. Skills lessons address decoding skills, focusing on sounds or phonemes as the primary organizing principle, rather than letters. In phonics instruction, students continue to practice identifying sounds within words and words within sentences, and they continue to learn about tricky words that have sounds that cannot be blended using the letter–sound correspondences students have been taught. Students continue to practice reading using decodable readers that are engaging and fun.

Students continue to learn and practice the mechanics of writing as they form lowercase and uppercase letters and answer story questions on activity pages. The course includes daily read-alouds that help students build the background knowledge and vocabulary critical to listening and reading comprehension. Students learn by listening to nursery rhymes, fables, classic tales, and nonfiction texts.

While teaching skills in reading, writing, listening, and speaking, the course also builds students' knowledge and vocabulary in literature, history, geography, and science.

Course Requirements

Grade Level - Kindergarten
Duration - 2 Semesters
Materials - None

1ST GRADE LANGUAGE ARTS - A & B

Semester A

The course continues to build the foundation for reading and writing. It includes frequent read-alouds that help students build the background knowledge and vocabulary critical to listening and reading comprehension. Students learn by listening to fables and stories, as well as nonfiction texts that include topics related to science and history.

Skills instruction starts with a review of sounds and spellings. Students are introduced to tricky spellings (spellings that look the same but are pronounced differently) and tricky words (words that cannot be sounded out using the letter-sound correspondences taught so far). Decodable readers are provided for students to practice their emerging reading skills. Students learn to read and write words with separated digraphs (such as a and e in cake). They begin to work with weekly spelling words.

Grammar lessons address parts of speech, including nouns (common and proper), past-tense verb forms, and adjectives. Students progress to work with nouns and verbs in phrases and to use adjectives for descriptive writing. They begin formal instruction in a writing process with a focus on narrative writing.

Semester B

The course continues to build the foundation for reading and writing. It includes frequent read-alouds that help students build the background knowledge and vocabulary critical to listening and reading comprehension. Students learn by listening to fables and stories, as well as nonfiction texts that include topics related to science and history.

Skills instruction continues with more tricky spellings (spellings that look the same but are pronounced differently) and tricky words (words that cannot be sounded out using the letter-sound correspondences taught so far). Decodable readers are provided for students to practice their emerging reading skills. Students learn to read and write words with separated digraphs (such as a and e in cake). They continue to work with weekly spelling words. Grammar lessons address types of sentences and matching nouns and pronouns. Students continue to practice using a writing process as they write a letter and a personal narrative.

Course Requirements
Grade Level - 1st Grade
Duration - 2 Semesters
Materials - None

2ND GRADE LANGUAGE ARTS - A & B
Semester A
The course includes frequent read-alouds that help students build the background knowledge and vocabulary critical to listening and reading comprehension. Students learn by listening to fairy tales, tall tales, myths, and nonfiction texts that include topics related to science and history. Skills instruction continues as students are introduced to spelling alternatives for vowel sounds, as well as various tricky spellings (spellings that look the same but are pronounced differently, such as o in hop or open). Weekly spelling lessons are a regular part of student work. Students practice using a writing process with a focus on writing narratives and opinions. Grammar instruction focuses on capitalization, quotation marks, ending punctuation, and common and proper nouns. Students are also introduced to antonyms and synonyms. Decodable readers for every skills unit include both fiction and nonfiction selections.

Semester B
The course includes frequent read-alouds that help students build the background knowledge and vocabulary critical to listening and reading comprehension. Students learn by listening to fairy tales, tall tales, myths, and nonfiction texts that include topics related to science and history. Skills instruction continues as students learn more spelling alternatives for vowel sounds and additional tricky spellings. They also practice chunking phonemes to read multisyllabic words. Weekly spelling lessons continue. Students continue to use a writing process as they practice persuasive writing and expository (report) writing.Grammar instruction includes reviews of previously taught skills as well as instruction on adjectives, adverbs, complete sentences, and correcting run-on sentences. Decodable readers for every unit include both fiction and nonfiction selections.

Course Requirements
Grade Level - 2nd Grade
Duration - 2 Semesters
Materials - None

3RD GRADE LANGUAGE ARTS- A & B
Semester A
The course includes frequent read-alouds that help students build the background knowledge and vocabulary critical to listening and reading comprehension. Students learn by listening to nonfiction texts that include topics related to science and history. The first unit includes selections from *The Wind in the Willows* by Kenneth Grahame to reinforce understanding of story elements. Students practice and build reading skills as they read selections in their readers. Many reading selections are informational texts that address topics related to science and history. Students also read excerpts from some classic tales, plus a variety of stories and myths from diverse groups. During writing instruction, students use a writing process as they practice expository (cause and effect), narrative (story), and opinion writing. Morphology lessons address reading and understanding words with common prefixes, suffixes, and Greek and Latin roots. Morphology instruction also addresses the meaning of various prefixes, suffixes, and roots. Grammar lessons address various speech and language-usage conventions (such as capitalization and punctuation). These specific grammar skills are then reinforced and applied in all writing exercises. Spelling lessons include weekly word lists that focus on content words and words with morphological patterns taught in each unit. Spelling exercises provide students with opportunities to practice applying knowledge of letter–sound correspondences learned in earlier grades.

Semester B
The course includes frequent read-alouds that help students build the background knowledge and vocabulary critical to listening and reading comprehension. Students learn by listening to nonfiction texts that include topics related to science and history. Students practice and build reading skills as they read selections in their readers. Many reading selections are informational texts that address topics related to science and history. Students also read excerpts from some classic tales, plus a variety of stories and myths from diverse groups. Students have the opportunity to independently read a longer book that they select themselves. During writing instruction, students use a writing process as they practice writing a narrative and a research paper.

Morphology lessons address reading and understanding words with common prefixes, suffixes, and Greek and Latin roots. Morphology instruction also addresses the meaning of various prefixes, suffixes, and roots. Grammar lessons address various speech and language-usage conventions (such as capitalization and punctuation). These specific grammar skills are then reinforced and applied in all writing exercises. Spelling lessons include weekly word lists that focus on content words and words with morphological patterns taught in each unit. The spelling exercises provide students with opportunities to practice applying knowledge of letter–sound correspondences learned in earlier grades.

Course Requirements

Grade Level - 3rd Grade
Duration - 2 Semesters
Materials - None

4TH GRADE LANGUAGE ARTS - A & B

Semester A

Students read from a variety of texts, including excerpts from *Brown Girl Dreaming* by Jacqueline Woodson, legends of King Arthur and his knights, poetry, and informational texts about science and history topics. Students use a writing process to develop several writings, including a memoir, a persuasive paragraph, a short story, a variety of poems, and shorter writing projects. Morphology lessons address reading and understanding words with common prefixes, suffixes, and Greek and Latin roots. Morphology instruction also addresses the meaning of various prefixes, suffixes, and roots. Grammar lessons address various speech and language-usage conventions (such as capitalization and punctuation). These specific grammar skills are then reinforced and applied in all writing exercises. Spelling lessons include weekly word lists that focus on content words and words with morphological patterns taught in each unit. The spelling exercises provide students with opportunities to practice applying knowledge of letter–sound correspondences learned in earlier grades.

Semester B

Students read from a variety of texts, including an abridged version of *Treasure Island* by Robert Louis Stevenson and informational texts about science and history topics. Students have the opportunity to independently read a longer book that they select themselves. Writing instruction centers on a comprehensive writing process and focuses on writing increasingly complex sentences, composing coherent paragraphs, and writing for a variety of purposes. Students develop a variety of writings including a cause-and-effect essay, an opinion essay, and a short story.

Morphology lessons address reading and understanding words with common prefixes, suffixes, and Greek and Latin roots. Morphology instruction also addresses the meaning of various prefixes, suffixes, and roots. Grammar lessons address various speech and language-usage conventions (such as capitalization and punctuation). These specific grammar skills are then reinforced and applied in all writing exercises. Spelling lessons include weekly word lists that focus on content words and words with morphological patterns taught in each unit. The spelling exercises provide students with opportunities to practice applying knowledge of letter–sound correspondences learned in earlier grades.

Course Requirements

Grade Level - 4th Grade
Duration - 2 Semesters
Materials - None

5TH GRADE LANGUAGE ARTS- A & B

Semester A

Students study contemporary and classic fiction, as well as informational texts. Readings include excerpts from the contemporary novel T*hey Call Me Güero: A Border Kids Poems* by David Bowles, an adaptation of the *Adventures of Don Quixote,* and a variety of informational texts related to historical topics. Writing instruction centers on a comprehensive writing process and focuses on writing increasingly complex sentences, composing coherent paragraphs, and writing for a variety of purposes. Students develop a variety of writings, including a personal narrative, an informative report, a persuasive essay, and a research project. Morphology lessons address reading and understanding words with common prefixes, suffixes, and Greek and Latin roots. Morphology instruction also addresses the meaning of various prefixes, suffixes, and roots. Grammar lessons address various speech and language-usage conventions (such as capitalization and punctuation). These specific grammar skills are then reinforced and applied in all writing exercises.

Spelling lessons include weekly word lists that focus on content words and words with morphological patterns taught in each unit. The spelling exercises provide students with opportunities to practice applying knowledge of letter–sound correspondences learned in earlier grades.

Semester B

Students study contemporary and classic fiction, as well as informational texts. Readings include an adaptation of Shakespeare's A *Midsummer Night's Dream,* a novel that students select, poetry, and a variety of informational texts related to historical topics.

Writing instruction centers on a comprehensive writing process and focuses on writing increasingly complex sentences, composing coherent paragraphs, and writing for a variety of purposes. Students develop a variety of writings, including a friendly letter, a variety of original poems, and a persuasive essay. Morphology lessons address reading and understanding words with common prefixes, suffixes, and Greek and Latin roots. Morphology instruction also addresses the meaning of various prefixes, suffixes, and roots. Grammar lessons address various speech and language-usage conventions (such as capitalization and punctuation). These specific grammar skills are then reinforced and applied in all writing exercises. Spelling lessons include weekly word lists that focus on content words and words with morphological patterns taught in each unit. The spelling exercises provide students with opportunities to practice applying knowledge of letter–sound correspondences learned in earlier grades.

Course Requirements
Grade Level - 5th Grade
Duration - 2 Semesters
Materials - None

MATH

KINDERGARTEN MATH - A & B
Semester A
In this problem-based curriculum, students will build on their math skills through exploration with interactives and virtual manipulatives. Students will develop counting skills and compare values of a wide variety of counting tools including 5-frames and connecting cubes. They will explore differences in shapes and describe, compare, and sort them. They will also use pattern blocks to make larger shapes. They reinforce their counting and comparison skills as they count and compare the pattern blocks used to create larger shapes. Students also use positional words to describe shapes. Finally, they will solve story problems to begin to develop their understanding of addition and subtraction. Students represent the problems in different ways, by acting them out, drawing, using numbers, or using objects.
Semester B
In this problem-based curriculum, students will build on their math skills through exploration with interactives and virtual manipulatives. Students will explore different ways to represent the compositions and decompositions of numbers within 10, including working with 10-frames. Then they will count and represent collections of objects and images within 20.
Next, students will explore solid shapes while reinforcing their knowledge of counting, number writing and comparison, and flat shapes. In the final unit of this course, students will prepare for Grade 1 by revisiting major work and fluency goals of the grade, applying their learning from the year.
Course Requirements
Grade Level - Kindergarten
Duration - 2 Semesters
Materials - None

1ST GRADE MATH - A & B
Semester A
In this problem-based curriculum, students will build on their math skills through exploration with interactives and virtual manipulatives. Students will deepen their understanding of addition and subtraction within 10 and extend what they know about organizing objects into categories and representing the quantities. They will solve new types of story problems within 10 using the relationship between addition and subtraction. They develop an understanding of the meaning of the equal sign and connect story problems to equations as they begin-- to learn to add and subtract within 20. Students apply the properties of operations and the relationship between addition and subtraction.
Semester B
In this problem-based curriculum, students will build on their math skills through exploration with interactives and virtual manipulatives. Students will count and group two-digit numbers and compare them using the symbols >, =, and <, while using place value and properties of operations to add within 100. Students will begin a study of measurement, measuring length and counting up to 120 length units. They solve addition and subtraction story problems with unknowns in all positions. They will continue to learn basic geometry skills as they reason with shapes and their attributes, partition shapes into equal pieces, and tell time to the hour and half hour. In the final unit of this course, students will prepare for Grade 2 by revisiting major work and fluency goals of the grade, applying their learning from the year.
Course Requirements
Grade Level - Kindergarten - 1st Grade
Duration - 2 Semesters
Materials - None

2ND GRADE MATH - A & B

Semester A

In this problem-based curriculum, students will build on their math skills through exploration with interactives and virtual manipulatives. Students represent and solve story problems within 20 using picture and bar graphs. Students build toward fluency with addition and subtraction as they add and subtract within 100 using strategies based on place value, properties of operations, and the relationship between addition and subtraction. They then use what they know to solve story problems. Students measure and estimate lengths in standard units and solve measurement story problems within 100 and then learn about the structure of a number line and use it to represent numbers within 100. They also relate addition and subtraction to length and represent the operations on the number line.

Semester B

In this problem-based curriculum, students will build on their math skills through exploration with interactives and virtual manipulatives. Students extend place value understanding to three-digit numbers and use properties of operations to add and subtract within 1,000 and work with equal groups of objects to gain foundations for multiplication. Students continue their study of geometry as they reason with shapes and their attributes and partition shapes into equal shares, building a foundation for fractions. They relate halves, fourths, and skip-counting by 5 to tell time, and solve story problems involving the values of coins and dollars. In the final unit of this course, students will prepare for Grade 3 by revisiting major work and fluency goals of the grade, applying their learning from the year.

Course Requirements

Grade Level - 2nd Grade
Duration - 2 Semesters
Materials - None

3RD GRADE MATH – A & B

Semester A

In this problem-based curriculum, students will build on their math skills through exploration with interactives and virtual manipulatives. Students will represent and solve multiplication problems using picture and bar graphs. They will learn about the relationship between multiplication and division, place value, and the properties of operations to multiply and divide whole numbers within 100. They also represent and solve two-step word problems using all four operations. They will learn about area concepts and relate area to multiplication and to addition as well as use place value understanding to lems using addition, subtraction, and multiplication and assess the reasonableness of answers.

Semester B

In this problem-based curriculum, students will build on their math skills through exploration with interactives and virtual manipulatives. Students will begin to develop an understanding of fractions and fraction equivalence by representing fractions on diagrams and number lines, generating equivalent fractions, and comparing fractions. They continue their study of measurement as they represent length data in halves and fourths of an inch on line plots. They learn about and estimate relative units of measure including weight, liquid volume, and time, and use the four operations to solve problems involving measurement. Students also continue their study of geometry as they reason about shapes and their attributes, with a focus on quadrilaterals. They solve problems involving the perimeter and area of shapes. In the final unit of this course, students will prepare for Grade 4 by revisiting major work and fluency goals of the grade, applying their learning from the year.

Course Requirements

Grade Level - 3rd Grade
Duration - 2 Semesters
Materials - None

4TH GRADE MATH – A & B

Semester A

In this problem-based curriculum, students will build on their math skills through exploration with interactives and virtual manipulatives. Students apply understanding of multiplication and area to work with factors and multiples. Students generate and reason about equivalent fractions and compare and order fractions and learn to add and subtract fractions with like denominators, and to add and subtract tenths and hundredths. Finally, students will read, write, and compare numbers in decimal notation. They also extend place value understanding for multi-digit whole numbers and add and subtract within 1,000,000.

Semester B

In this problem-based curriculum, students will build on their math skills through exploration with interactives and virtual manipulatives. Students will focus on developing an understanding of the relationship between multiplication and division. They use this thinking to convert units of measure within a given system from larger to smaller units. Students multiply and divide multi-digit whole numbers using partial products and partial quotients strategies and solve multi-step problems using the four operations. Students continue their study of geometry as they learn to draw and identify points, rays, segments,

angles, and lines, including parallel and perpendicular lines. Students will learn how to use a protractor to measure, draw, and identify angles. They will classify triangles and quadrilaterals based on the properties of their side lengths and angles and learn about lines of symmetry in two-dimensional figures. They use their understanding of these attributes to solve problems, including problems involving perimeter and area. In the final unit of this course, students will prepare for Grade 5 by revisiting major work and fluency goals of the grade, applying their learning from the year.

Course Requirements
Grade Level - 4th Grade
Duration - 2 Semesters
Materials - None

5TH GRADE MATH – A & B
Semester A
In this problem-based curriculum, students will build on their math skills through exploration. Throughout this course, students will use interactives and virtual manipulatives to explore math concepts. Students continue their study of geometry as they find the volume of right rectangular prisms and solid figures composed of two right rectangular prisms. They will then solve problems that involve the multiplication of a whole number and a fraction, including fractions greater than 1 as well as multiply fractions by fractions and divide a whole number and a unit fraction. Finally, students use the standard algorithm to multiply multi-digit whole numbers. They divide whole numbers up to four-digits by two-digits divisors using strategies based on place value and properties of operations.
Semester B
In this problem-based curriculum, students will build on their math skills through exploration. Throughout this course, students will use interactives and virtual manipulatives to explore math concepts. Students will use their understanding of place value to round, compare, order, add, subtract, multiply, and divide decimals. They will then solve multi-step problems involving measurement conversions, line plots, and fraction operations, including addition and subtraction of fractions with unlike denominators. Next, students plot coordinate pairs on a coordinate grid and classify triangles and quadrilaterals based on properties of side length and angle measure. They generate, identify, and graph relationships between corresponding terms in two numeric patterns, given two rules, and represent and interpret real world and mathematical problems on a coordinate grid. In the final unit of this course, students will prepare for middle school by revisiting major work and fluency goals of the grade, applying their learning from the year.

Course Requirements
Grade Level - 5th Grade
Duration - 2 Semesters
Materials - None

SCIENCE

KINDERGARTEN SCIENCE - A & B
The Kindergarten Science course builds students' knowledge about core ideas in life, physical, and earth sciences, as well as engineering design. Students will explore pushes and pulls, the needs of plants and animals, changing environments, and weather patterns. Students will develop and use scientific practices that give them firsthand experience in scientific inquiry, engineering, and technology. Throughout the course, scientific learning is connected to concepts across various disciplines, such as mathematics and literacy.

Course Requirements
Grade Level - Kindergarten
Duration - 2 Semesters
Materials - None

1ST GRADE SCIENCE – A & B
First Grade Science continues to build students' knowledge about core ideas in life, physical, and earth sciences, as well as engineering design. Students will explore the sun, moon, and stars; light and sound; plant and animal survival; and simple machines. Students will develop and use scientific practices that give them firsthand experience in scientific inquiry, engineering, and technology. Throughout the course, scientific learning is connected to concepts across various disciplines, such as mathematics and literacy.

Course Requirements
Grade Level - 1st Grade
Duration - 2 Semesters
Materials - None

2ND GRADE SCIENCE – A & B
Second Grade Science continues to build students' knowledge about core ideas in life, physical, and earth sciences, as well as engineering design. Students will explore the properties of matter, the needs of plants and animals, land and water features, and electricity and magnetism. Students will develop and use scientific practices that give them firsthand experience in scientific inquiry, engineering, and technology. Throughout the course, scientific learning is connected to concepts across various disciplines, such as mathematics and literacy.

Course Requirements
Grade Level - 2nd Grade
Duration - 2 Semesters
Materials - None

3RD GRADE SCIENCE – A & B
Third Grade Science builds on prior understanding of scientific topics to support increasingly sophisticated learning. Students will investigate forces; life cycles, traits, and variations; habitats and change; and weather and climate. Students will develop and use scientific practices that give them firsthand experience in scientific inquiry, engineering, and technology. Throughout the course, scientific learning is connected to concepts across various disciplines, such as mathematics and literacy.
Course Requirements
Grade Level - 3rd Grade
Duration - 2 Semesters
Materials - None

4TH GRADE SCIENCE – A & B
Fourth Grade Science builds on prior understanding of scientific topics to support increasingly sophisticated learning. Students will investigate energy transfer and transformation; waves; structures and functions of living things; processes that shape the earth; and using natural resources for energy. Students will develop and use scientific practices that give them firsthand experience in scientific inquiry, engineering, and technology. Students will also have the opportunity to use problem-based learning to develop and present solutions based on learning, and, ideally, interact with their community. Throughout the course, scientific learning is connected to concepts across various disciplines, such as mathematics and literacy.
Course Requirements
Grade Level - 4th Grade
Duration - 2 Semesters
Materials - None

5TH GRADE SCIENCE – A & B
Semester A
Fifth Grade Science builds on prior understanding of scientific topics to support increasingly sophisticated learning. Students will investigate matter; energy and matter in ecosystems; modeling Earth's systems; protecting Earth's resources; and astronomy. Students will develop and use scientific practices that give them firsthand experience in scientific inquiry, engineering, and technology. Students will also have the opportunity to use problem-based learning to develop and present solutions based on learning, and, ideally, interact with their community. Throughout the course, scientific learning is connected to concepts across various disciplines, such as mathematics and literacy.
Course Requirements
Grade Level - 5th Grade
Duration - 2 Semesters
Materials - None

SOCIAL STUDIES

KINDERGARTEN SOCIAL STUDIES - A & B
Kindergarten Social Studies includes history, geography, economics, and civics lessons plus additional resources for teachers and students. This is a comprehensive course, integrating topics in civics and the arts. The course helps students build knowledge of the diverse civilizations, cultures, and concepts.
Course Requirements
Grade Level - Kindergarten
Duration - 2 Semesters
Materials - None

1ST GRADE SOCIAL STUDIES - A & B
First Grade Social Studies includes history, geography, economics, and civics lessons plus additional resources for teachers and students.This is a comprehensive course, integrating topics in civics and the arts. The course helps students build knowledge of the diverse civilizations, cultures, and concepts.
Course Requirements
Grade Level - 1st Grade
Duration - 2 Semesters
Materials - None

2ND GRADE SOCIAL STUDIES - A & B
Second Grade Social Studies includes history, geography, economics, and civics lessons plus additional resources for teachers and students.This is a comprehensive course, integrating topics in civics and the arts. The course helps students build knowledge of the diverse civilizations, cultures, and concepts.
Course Requirements
Grade Level - 2nd Grade
Duration - 2 Semesters
Materials - None

3RD GRADE SOCIAL STUDIES - A & B
Semester A
Students will learn about history and geography as they study world rivers, ancient Rome, the Vikings, the earliest Americans, and the thirteen colonies. Projects that accompany each unit expand upon

the historical and geographical learning and allow students to build an understanding of history and geography, civics, and economics.

Course Requirements
Grade Level - 3rd Grade
Duration - 2 Semesters
Materials - None

4TH GRADE SOCIAL STUDIES - A & B
Semester A
Students continue to build upon their knowledge of geography as they study world mountains. The age of exploration is covered and the historical focus shifts to American history topics such as the American Revolution, the Constitution, and early Presidents. Projects that accompany each unit expand upon the historical and geographical learning and allow students to build an understanding of local history and geography, civics, and economics.

Course Requirements
Grade Level - 4th Grade
Duration - 2 Semesters
Materials - None

5TH GRADE SOCIAL STUDIES - A & B
Students continue to build upon their knowledge of geography as they focus on the physical features and climate of the United States. They learn about the ancient civilizations that paved the way for modern societies and systems. American history topics focus on westward expansion, before and after the Civil War. Projects that accompany each unit expand upon the historical and geographical learning and allow students to build an understanding of local history and geography, civics, and economics.

Course Requirements
Grade Level - 5th Grade
Duration - 2 Semesters
Materials - None

ELECTIVES

ARTS & CRAFTS K*
This course provides a foundation for children's inherent artistic imagination and creativity by sharing the basics of art and making art. Students are introduced to lines, circles, recognizing and using shapes, creating a collage and concepts such as symmetry. Young artists will also explore a variety of media such as pastels, watercolors, crayons, tempera, and pencil drawing. A particular emphasis is on creating works of art. In this semester students will work with clay, draw with pastels, make fingerprint flowers, draw barns and animals using shapes and recognizing lines using the student's name.

Course Requirements
Grade Level - Kindergarten
Duration - 1 Semester
Materials – None

ARTS & CRAFTS 1*
This course provides a foundation for children's inherent artistic imagination and creativity by sharing the basics of art and making art. Students are introduced to primary colors, the color wheel, shapes such as lines and circles, and concepts such as symmetry. Young artists will also explore a variety of media such as pastels, watercolors, crayons, tempera, and pencil drawing. A particular emphasis on this course is on creating works of art. In this semester students will create a watercolor tree, use a printing block, produce weather painting, and produce a watercolor painting.

Course Requirements
Grade Level - 1st Grade
Duration - 1 Semester
Materials - None

ARTS & CRAFTS 2*
The student will see the artistic expressions and inventions from cultures around the world that are part of the history of mankind and development. Modern media provides many opportunities to the student. However, the student has the benefit to experience it more closely in art classes. Repetition, important for young children, is evident in these lessons. Repetition is provided at different age levels while using various tools and mediums. Home, family and friends, pets, and toys are the young student's world.

The student will begin with their personal world as they think they know it and discover so much more about it. These lessons provide a deeper awareness of the world immediately around them, and eventually their journey will grow from there. Each student is an individual with unique ideas and talents. Our goal is to provide each student an opportunity for personal growth for themselves and the world in which we live.

Course Requirements
Grade Level - 2nd Grade
Duration - 1 Semester
Materials - None

ART LEVEL 3*
Art 3 explores the tools, elements, and principles of visual art from different cultures. The course explores interpreting messages in art forms such as drawing, sketching, architecture, painting, illustration, sculpture, photography, and textile art. Topics include lines, shapes, patterns, balance, movement, rhythm, mood, repetition, expression, emphasis, theme, and solving design issues. The course projects and portfolio encourage evaluation of personal, professional, and community art.

Course Requirements
Grade Level - 3rd Grade
Duration - 1 Semester
Materials - None

DIGITAL ART DESIGN 1*
This course introduces concepts and methods used in the creation of digital art. The course explores design principles, common applications of digital artwork, and techniques for brainstorming and developing an artistic idea. Topics include artistic mediums such as digital photography, 2D computer graphics, web design, and digital illustration, relevant tools, techniques, and skills of each medium. Supporting topics include meaning, audience, impact, and ethics in the creation and use of digital media. Course projects include the creation of a digital photograph and a web page.

Course Requirements
Grade Level – 4th – 5th Grade
Duration – 1 Semester
Materials - None

DIGITAL ART DESIGN II*
Digital Art and Design II explores digital art, how life relates to art, and how individual works of art are interpreted. Topics include design, principles, types and common applications of digital artwork, and techniques for brainstorming and developing an artistic idea, artistic mediums (3D computer graphics, animation, digital video, and digital audio). Supporting topics include expression, purpose, meaning, ethics, testing, critique, improvement, presentation, and distribution in the creation and use of digital media. Course projects include the creation of a digital animation and a piece of digital audio.

Course Requirements
Grade Level – 5th Grade
Grade Duration – 1 Semester
Materials - None
Prerequisites – Digital Art Design 1

FOUNDATIONS IN READING*
Foundations in Reading reviews reading skills that build a strong foundation for effective reading. Topics include: a review of sounds in words by pronouncing initial, medial vowel, and final phonemes by segmenting and blending phonemes. The course begins with reading one-syllable words and moves onto multi-syllable words, practice decoding words in isolation and in the context of sentences, poems, stories, as well as informational texts. Reading fluency focuses on reading for accuracy, rate, expression, purpose, and understanding.

Course Requirements
Grade Level – 2nd - 3rd Grade
Duration - Variable, minimum 1 Semester
Materials – None

HEALTH K-1 - A & B
Health K-1 helps young learners establish a basic understanding of the aspects of health. Students focus on the various aspects of their health and how they can make healthy choices. Topics of study include personal safety, healthy behaviors, nutrition, communication, disease prevention, basic anatomy and physiology, and values of cooperation and teamwork.

Course Requirements
Grade Level - Kindergarten - 1st Grade
Duration - 2 Semesters
Materials - None

HEALTH 2-3 - A & B
Health 2-3 helps young learners establish a basic understanding of the aspects of health. Students focus on the various aspects of their health and how they can make healthy choices. Topics of study include personal safety, healthy behaviors, nutrition, disease prevention, conflict resolution, basic anatomy and physiology, and the values of respect and cooperation.
Course Requirements
Grade Level - 2nd - 3rd Grade
Duration - 2 Semesters
Materials - None

KEYBOARDING*
The Keyboarding curriculum introduces new keys by rows, whereby students first learn the middle row, then the top row and the bottom row of the keyboard. The content is designed with a strong focus on sight and high frequency words. This course assumes no keyboarding experience and will guide students through efficiently using keyboard.
Course Requirements
Grade Level - 3rd – 5th Grade
Duration - 1 Semester
Materials - None
Tech Requirements - Students will need a computer or laptop for this course. Tablets are not sufficient.

SCRATCH CODING*
Scratch is a program developed by MIT teaching students the basics on how computers think! This program will introduce students to real coding programs and allow them to drag and drop coding blocks creating a fully functional program. The simple user interface and tutorials allow students to quickly create and run their code to see its results!
Course Requirements
Grade Level - 3rd – 5th Grade
Duration - 1 Semester
Materials - None
Tech Requirements - Students will need a computer or laptop for this course. Tablets are not sufficient.

ELECTIVES - WORLD LANGUAGES

INTRODUCTION TO SPANISH - A & B
Introduction to Spanish allows students to explore the basics of the Spanish language. Students will learn about the culture of Mexico. They will also learn basic vocabulary through interactive games, videos, and different forms of practice activities.
Course Requirements
Grade Level – Kindergarten – 5th Grade
Duration - 2 Semesters
Materials – None

SPANISH LEVEL 1 - A & B
In Spanish Level One, students will continue to learn the basics of Spanish including greetings and introductions, numbers 11-20, days of the week, clothing, Spanish culture, flamenco, and weather. They will expand basic vocabulary and learn common phrases and questions.
Course Requirements
Grade Level – 1st – 5th Grade
Duration - 2 Semesters
Materials – None

SPANISH LEVEL 2 - A & B
The Spanish Level Two course allows students to learn new Spanish vocabulary. The course also begins to teach letter sounds and syllables in the target language. Students will explore the culture and traditions of Peru. They will also learn new vocabulary and more about the Peruvian culture through interactive games and different forms of practice activities.
Course Requirements
Grade Level – 2nd to 5th Grade
Duration - 2 Semesters
Materials – None

SPANISH LEVEL 3 - A & B
The Spanish Level Three course dives deeper into the Spanish language. Students will explore the culture of the Caribbean Islands. They will begin to learn about letter combinations/blends and their syllables as well as new vocabulary. Students will be introduced to basic Spanish grammar rules. They will also be focusing on asking and answering questions in the target language. They will be able to participate in interactives games and activities.
Course Requirements
Grade Level – 3rd – 5th Grade
Duration - 2 Semesters
Materials – None

SPANISH LEVEL 4 - A & B
The Spanish Level Four course goes deeper into learning the Spanish language. Students will build their Spanish vocabulary and learn grammar rules that apply to the target language. They will explore countries in South America, along with their cultures and traditions. Students will learn about seasons and how seasons are opposite in Patagonia. They will be engaged in learning the Spanish culture and language through interactive games and activities.
Course Requirements
Grade Level – 4th – 5th Grade
Duration - 2 Semesters
Materials – None

SPANISH LEVEL 5 - A & B

The Spanish Level Five course takes students on a journey to countries in Central America. Students will be immersed in the Central American culture and language. Students will dive deeper into grammar rules that apply in the target language. They will learn to write simple sentences in Spanish. Students will enjoy learning the language through interactive games and activities.

Course Requirements

Grade Level - 5th Grade
Duration - 2 Semesters
Materials – None

COURSE LIST LOWER SCHOOL K-5

LANGUAGE ARTS

KINDERGARTEN LANGUAGE ARTS - A & B
1ST GRADE LANGUAGE ARTS - A & B
2ND GRADE LANGUAGE ARTS - A & B
3RD GRADE LANGUAGE ARTS - A & B
4TH GRADE LANGUAGE ARTS - A & B
5TH GRADE LANGUAGE ARTS - A & B

MATH

KINDERGARTEN MATH - A & B
1ST GRADE MATH - A & B
2ND GRADE MATH - A & B
3RD GRADE MATH - A & B
4TH GRADE MATH - A & B
5TH GRADE MATH - A & B

SCIENCE

KINDERGARTEN SCIENCE - A & B
1ST GRADE SCIENCE - A & B
2ND GRADE SCIENCE - A & B
3RD GRADE SCIENCE - A & B
4TH GRADE SCIENCE - A & B
5TH GRADE SCIENCE - A & B

SOCIAL STUDIES

KINDERGARTEN SOCIAL STUDIES- A & B
1ST GRADE SOCIAL STUDIES - A & B
2ND GRADE SOCIAL STUDIES - A & B
3RD GRADE SOCIAL STUDIES - A & B
4TH GRADE SOCIAL STUDIES - A & B
5TH GRADE SOCIAL STUDIES - A & B

ELECTIVES

ARTS & CRAFTS K*
ARTS & CRAFTS 1*
ARTS & CRAFTS 2*
ART LEVEL 3*
DIGITAL ART DESIGN I*
DIGITAL ART DESIGN II*
FOUNDATIONS IN READING*
HEALTH K-1 - A & B
HEALTH 2-3 – A & B
KEYBOARDING*
SCRATCH CODING*

ELECTIVES - WORLD LANGUAGES

INTRODUCTION TO SPANISH - A & B
SPANISH LEVEL 1 - A & B
SPANISH LEVEL 2 - A & B
SPANISH LEVEL 3 - A & B
SPANISH LEVEL 4 - A & B
SPANISH LEVEL 5 - A & B

KHDA COURSES (UAE STUDENTS ONLY)

MORAL, SOCIAL & CULTURAL STUDIES
NON-NATIVE/ NATIVE ISLAMIC STUDIES
NON-NATIVE/ NATIVE ARABIC

LANGUAGE ARTS

6TH GRADE LANGUAGE ARTS - A & B
Semester A
Middle School students are able to independently read increasingly complex text, as well as respond in writing to these same texts. Readings include classic short stories and a variety of informational texts related to historical topics. Students will also have the opportunity to read and study a novel of their choice. Each unit in 6th grade Language Arts includes explicit instruction and practice in writing, grammar, morphology, spelling, and reading. Grade 6 writing expands in scope and complexity, consisting of a robust series of unit-long writing activities that incorporate language skills and focus on developing craft and structure while incorporating and building upon writing skills learned in the earlier grades. These writing projects are intended to prepare middle school students for the writing they will do in high school, college, and the professional world. The semester culminates with a project in which students apply the learning from the semester to complete a comprehensive activity. The projects are intended to promote independent learning as students make choices about work products and apply self-management skills to plan activities.
Semester B
Middle School students are able to independently read increasingly complex text, as well as respond in writing to these same texts. Readings include classic and contemporary poetry, including Iliad and Odyssey, as well as a student-friendly version of Shakespeare's Julius Caesar. Students will also have the opportunity to read and study a nonfiction work of their choice. Each unit in 6th grade Language Arts includes explicit instruction and practice in writing, grammar, morphology, spelling, and reading. Grade 6 writing expands in scope and complexity, consisting of a robust series of unit-long writing activities that incorporate language skills and focus on developing craft and structure while incorporating and building upon writing skills learned in the earlier grades. These writing projects are intended to prepare middle school students for the writing they will do in high school, college, and the professional world. The semester culminates with a project in which students apply the learning from the semester to complete a comprehensive activity. The projects are intended to promote independent learning as students make choices about work products and apply self-management skills to plan activities.
Course Requirements
Grade Level - 6th Grade
Duration - 2 Semesters
Materials – None

7TH GRADE LANGUAGE ARTS - A & B
Semester A
Middle School students are able to independently read increasingly complex text, as well as respond in writing to these same texts. Readings include classic short stories and a variety of fiction and nonfiction selections from the Harlem Renaissance, as well as a student-friendly version of Strange Case of Dr. Jekyll and Mr. Hyde. Students will also have the opportunity to read and study a novel of their choice. Each unit in 7th grade Language Arts includes explicit instruction and practice in writing, grammar, morphology, spelling, and reading. Grade 7 writing expands in scope and complexity, consisting of a robust series of unit-long writing activities that incorporate language skills and focus on developing craft and structure while incorporating and building upon writing skills learned in the earlier grades. These writing projects are intended to prepare middle school students for the writing they will do in high school, college, and the professional world. The semester culminates with a project in which students apply the learning from the semester to complete a comprehensive activity. The projects are intended to promote independent learning as students make choices about work products and apply self-management skills to plan activities.
Semester B
Middle School students are able to independently read increasingly complex text, as well as respond in writing to these same texts. Readings include classic and contemporary poetry as well as student-friendly versions of Shakespeare's The Tempest and The Time Machine by H.B. Wells. Students will also have the opportunity to read and study a nonfiction work of their choice. Each unit in 7th grade Language Arts includes explicit instruction and practice in writing, grammar, morphology, spelling, and reading. Grade 7 writing expands in scope and complexity, consisting of a robust series of unit-long writing activities that incorporate language

skills and focus on developing craft and structure while incorporating and building upon writing skills learned in the earlier grades. These writing projects are intended to prepare Middle School students for the writing they will do in High School, college, and the professional world. The semester culminates with a project in which students apply the learning from the semester to complete a comprehensive activity. The projects are intended to promote independent learning as students make choices about work products and apply self-management skills to plan activities.

Course Requirements

Grade Level - 7th Grade
Duration - 2 Semesters
Materials – None

8TH GRADE LANGUAGE ARTS - A & B

Semester A

Middle School students are able to independently read increasingly complex text, as well as respond in writing to these same texts. Readings include classic short stories and a variety of fiction and nonfiction selections from the Harlem Renaissance, as well as a student-friendly version of Mary Shelly's Frankenstein. Students will also have the opportunity to read and study a novel of their choice. Each unit in 8th grade Language Arts includes explicit instruction and practice in writing, grammar, morphology, and reading. Grade 8 writing expands in scope and complexity, consisting of a robust series of unit-long writing activities that incorporate language skills and focus on developing craft and structure while incorporating and building upon writing skills learned in the earlier grades. These writing projects are intended to prepare Middle School students for the writing they will do in High School, college, and the professional world. The semester culminates with a project in which students apply the learning from the semester to complete a comprehensive activity. The projects are intended to promote independent learning as students make choices about work products and apply self-management skills to plan activities.

Semester B

Middle School students are able to independently read increasingly complex text, as well as respond in writing to these same texts. Readings include classic and contemporary poetry as well as student-friendly versions of Narrative of the Life of Frederick Douglass and The Importance of Being Earnest by Oscar Wilde. Students will also have the opportunity to read and study a nonfiction work of their choice. Each unit in 8th grade Language Arts includes explicit instruction and practice in writing, grammar, morphology, and reading. Grade 8 writing expands in scope and complexity, consisting of a robust series of unit-long writing activities that incorporate language skills and focus on developing craft and structure while incorporating and building upon writing skills learned in the earlier grades. These writing projects are intended to prepare middle school students for the writing they will do in high school, college, and the professional world. The semester culminates with a project in which students apply the learning from the semester to complete a comprehensive activity. The projects are intended to promote independent learning as students make choices about work products and apply self-management skills to plan activities.

Course Requirements

Grade Level - 8th Grade
Duration - 2 Semesters
Materials - None

INTENSIVE READING*

This course explores foundational reading skills for Middle School students to remediate gaps in reading fluency, comprehension, vocabulary and vocabulary skills, grammar skills, and writing fluency through responses to a variety of literary and informational texts.

Course Requirements

Grade Level - 6th - 8th Grade
Duration - Variable, minimum 1 Semester
Materials - None

MATH

6TH GRADE MATH - A & B

Semester A

In this problem-based curriculum, students will build on their math skills through exploration. Throughout this course, students will use interactives and offline tools to explore math concepts. Students learn by doing math, solving problems in mathematical and real-world contexts, and constructing arguments using precise language. Students hear thoughts and ideas from their virtual classmates as they explore mathematical concepts and are encouraged to explain their thinking in writing throughout the course. Students begin the year exploring geometry through the study of area and surface area of figures. They then move into a study of ratios, unit rates, unit pricing, and percentages. The semester concludes with an in-depth dive into dividing fractions, focusing not only on algorithms, but also conceptualizing and applying this skill. Additional course elements include real-world applications, discussions, graphic organizers, and unit projects.

Semester B

In this problem-based curriculum, students will build on their math skills through exploration. Throughout this course, students will use interactives and offline tools to explore math concepts. Students learn by doing math, solving problems in mathematical and real-world contexts, and constructing arguments using precise language. Students hear thoughts and ideas from their virtual classmates as they explore mathematical concepts and are encouraged to explain their thinking in writing throughout the course. Students begin this semester by exploring decimals, and learn how to perform operations with decimals in context of real-world situations and problems. They then begin to delve into algebraic concepts such as expressions, expressions with exponents, and equations with one variable. Students begin to learn about negative numbers and plot positive and negative numbers on a coordinate grid. Finally, students explore data analysis and statistical questions through the study of dot plots, histograms, median, IQR, and measures of center. Additional course elements include real-world applications, discussions, graphic organizers, and unit projects.

Course Requirements

Grade Level - 6th Grade
Duration - 2 Semesters
Materials - None

7TH GRADE MATH - A & B

Semester A

In this problem-based curriculum, students will build on their math skills through exploration. Throughout this course, students will use interactives and offline tools to explore math concepts. Students learn by doing math, solving problems in mathematical and real-world contexts, and constructing arguments using precise language. Students hear thoughts and ideas from their virtual classmates as they explore mathematical concepts and are encouraged to explain their thinking in writing throughout the course. Students begin the year exploring relationships between figures as they examine scaled copies and scale drawings. This transitions into learning about proportional and nonproportional relationships as well as how to represent proportional relationships with tables, graphs, and equations. Next, students learn about relationships within circles: measuring circles and finding the area and circumference of a circle. Finally, students conclude their study of proportional relationships by studying proportional relationships with fractions, percent increase and decrease, and application of percentages. Additional course elements include real-world applications, discussions, graphic organizers, and unit projects.

Semester B

In this problem-based curriculum, students will build on their math skills through exploration. Throughout this course, students will use interactives and offline tools to explore math concepts. Students learn by doing math, solving problems in mathematical and real-world contexts, and constructing arguments using precise language. Students hear thoughts and ideas from their virtual classmates as they explore mathematical concepts and are encouraged to explain their thinking in writing throughout the course. Students begin this semester with rational number arithmetic, learning how to interpret negative numbers and complete all 4 operations with rational numbers. They are also introduced to solving equations with negative numbers. Next, students apply their skills to solving expressions, equations, and inequalities, as well as writing equivalent expressions. Students then transition to geometry, working with angles, triangles, and prisms. They study relationships between angles and learn how to draw figures with given specifications. The course concludes with a study of probability of single- and multi-step events and sampling.

Additional course elements include real-world applications, discussions, graphic organizers, and unit projects.

Course Requirements
Grade Level - 7th Grade
Duration - 2 Semesters
Materials - None

8TH GRADE MATH - A & B
Semester A
In this problem-based curriculum, students will build on their math skills through exploration. Throughout this course, students will use interactives and offline tools to explore math concepts. Students learn by doing math, solving problems in mathematical and real-world contexts, and constructing arguments using precise language. Students hear thoughts and ideas from their virtual classmates as they explore mathematical concepts and are encouraged to explain their thinking in writing throughout the course. This semester begins with an in-depth study of transformations. Students first learn about rigid transformations and congruence of shapes and angles in triangles. They then expand this knowledge to work with dilations and similarity of figures. Next, they begin to explore linear relationships as they find slopes and solve and graph linear equations. Finally, students learn more about linear equations in one variable and are introduced to systems of linear equations. Additional course elements include real-world applications, discussions, graphic organizers, and unit projects.
Semester B
In this problem-based curriculum, students will build on their math skills through exploration. Throughout this course, students will use interactives and offline tools to explore math concepts. Students learn by doing math, solving problems in mathematical and real-world contexts, and constructing arguments using precise language. Students hear thoughts and ideas from their virtual classmates as they explore mathematical concepts and are encouraged to explain their thinking in writing throughout the course. This semester begins with an in-depth study of functions as students learn to represent and interpret functions. Students evaluate linear functions and apply them to rates of change. They then shift to geometry skills, working to find the volume of cones, cylinders, and spheres. Next, students analyze data by looking for associations, analyzing patterns, and trends. Students then review previous learning about exponents, learn about rules of exponents, and apply exponents to scientific notation. Finally, students apply computational skills to geometric figures, work with the Pythagorean Theorem and find side lengths and volume of cubes. Additional course elements include real-world applications, discussions, graphic organizers, and unit projects.

Course Requirements
Grade Level – 8th Grade
Duration - 2 Semesters
Materials – None

PRE-ALGEBRA – A & B
Pre-Algebra is all about training to run the race of high school math. Students will strengthen their skills in topics like linear relationships, functions, and equations, and learn new skills that prepare them for Algebra 1. This course is designed with interactive learning and real-world activities to strengthen students' math muscles for the race ahead.

Course Requirements
Grade Level - 8th Grade
Duration - 2 Semesters
Prerequisites - 7th Grade Math

SCIENCE

6TH GRADE SCIENCE - A & B
Semester A
In this inquiry-based curriculum, students engage with science questions with the goal of explaining a phenomenon and/or solving a problem. Students begin by posing questions, developing models, proposing ideas for investigation, investigating and gathering data, applying data to answer questions and revise models, and then forming new questions to answer. They question, investigate, and build understanding as they read, complete interactive activities and simulations, and engage in virtual labs. Students begin the semester with a study of light and matter, exploring the phenomenon of one-way mirrors which act as both a window and a mirror. They will investigate how light transmission and reflection impacts how we see an object. Next, they will study thermal energy and learn how containers can keep materials hot or cold. During this study, they will investigate closed and open systems and the movement of particles. Finally, they will learn about cells and systems. Students will explore the systems of the body and investigate how we heal from injuries at a cellular level. Additional course elements include readings, discussions, and unit projects.

Semester B
In this inquiry-based curriculum, students engage with science questions with the goal of explaining a phenomenon and/or solving a problem. Students begin by posing questions, developing models, proposing ideas for investigation, investigating and gathering data, applying data to answer questions and revise models, and then forming new questions to answer. They question, investigate, and build understanding as they read, complete interactive activities and simulations, and engage in virtual labs. Students begin the semester with a study of weather, climate, and water cycling. They investigate the movement of air in the atmosphere and the impact that it has on the weather. Students explore precipitation and storms and investigate why some storms are more severe than others. Next, student will learn about plate tectonics and rock cycling. They study Earth's surface and how tectonic plate movement has impacted land. Finally, students will focus on tsunamis as they investigate natural hazards and how to prepare for them. Additional course elements include readings, discussions, and unit projects.

Course Requirements
Grade Level - 6th Grade
Duration - 2 Semesters
Materials - None

7TH GRADE SCIENCE - A & B
Semester A
In this inquiry-based curriculum, students engage with science questions with the goal of explaining a phenomenon and/or solving a problem. Students begin by posing questions, developing models, proposing ideas for investigation, investigating and gathering data, applying data to answer questions and revise models, and then forming new questions to answer. They question, investigate, and build understanding as they read, complete interactive activities and simulations, and engage in virtual labs. This semester begins with an investigation of bath bombs and the chemical reactions that happen when they are placed in water. Students will learn how matter can change forms while total mass remains the same. Next, students continue their study of chemical reactions as they learn about chemical reactions and energy. They investigate how to heat up food and how to create a flameless heater. Finally, they will explore ecosystems and how changing an ecosystem impacts living things. They will study the impact of various products on rainforests and on the plant and animal life within them. Additional course elements include readings, discussions, and unit projects.

Semester B
In this inquiry-based curriculum, students engage with science questions with the goal of explaining a phenomenon and/or solving a problem. Students begin by posing questions, developing models, proposing ideas for investigation, investigating and gathering data, applying data to answer questions and revise models, and then forming new questions to answer. They question, investigate, and build understanding as they read, complete interactive activities and simulations, and engage in virtual labs. This semester begins with a study of metabolic reactions. Students will learn about what happens to food molecules as they pass through the digestive system and will study the chemical reactions that happen within the human body. Next, students will investigate how plants get their food and the cycling of matter in the plant life cycle. Finally, students will study the impact of humans on Earth's resources and will learn strategies to work together to help battle climate change and changes to our atmosphere. Additional course elements include readings, discussions, and unit projects.

Course Requirements
Grade Level - 7th Grade
Duration - 2 Semesters
Materials - None

8TH GRADE SCIENCE - A & B
Semester A
In this inquiry-based curriculum, students engage with science questions with the goal of explaining a phenomenon and/or solving a problem. Students begin by posing questions, developing models, proposing ideas for investigation, investigating and gathering data, applying data to answer questions and revise models, and then forming new questions to answer. They question, investigate, and build understanding as they read, complete interactive activities and simulations, and engage in virtual labs. This semester begins with a study of motion and contact forces. Students will investigate ho changing the mass or speed of an object can affect forces in a collision, as well as learn ways to protect objects in a collision. Next, students investigate sound and how sounds can make matter move. They study sound waves and frequency and examine the effects of different pitches and volumes of sounds. Finally, students continue their study of forces by investigating magnets and the forces that they can apply on objects. They investigate magnetic fields, energy transfer, and the force pairs in magnetic fields. Additional course elements include readings, discussions, and unit projects.

Semester B
In this inquiry-based curriculum, students engage with science questions with the goal of explaining a phenomenon and/or solving a problem. Students begin by posing questions, developing models, proposing ideas for investigation, investigating and gathering data, applying data to answer questions and revise models, and then forming new questions to answer. They question, investigate, and build understanding as they read, complete interactive activities and simulations, and engage in virtual labs. This semester begins with an exploration of patterns in the sky and in space. Students investigate phenomena with the Moon, Sun, and other objects within and beyond our solar system. Next, students explore the world of genetics, as they learn how traits are passed from parents to offspring. They model trait variations and learn about the reproduction of plants and animals. Finally, students explore the connection between living beings of today and those of long ago as they investigate the process of natural selection. They engage in case studies about population changes and the impact of the environment on various living beings. Additional course elements include readings, discussions, and unit projects.

Course Requirements
Grade Level - 8th Grade
Duration - 2 Semesters
Materials - None

SOCIAL STUDIES

6TH GRADE SOCIAL STUDIES - A & B
The 6th Grade Social Studies continues the exploration of the five themes of geography with a focus on the Middle East, Africa, and Asia. Cultural beliefs and social and political systems are examined within the context of countries, regions, and global interactions.

Course Requirements
Grade Level - 6th Grade
Duration - 2 Semesters
Materials – None

7TH GRADE SOCIAL STUDIES - A & B
Semester A
The 7th Grade Social Studies A course recounts important historical themes and events in world history from the ancient world to the Medieval era. Topics include the following: Complex societies developed independently in different cradles of civilization, including Mesopotamia, Egypt, the Indus Valley, China, and Mesoamerica; Ancient Greece and Rome laid the foundations for Western civilization; The modern world religions of Judaism, Christianity, Buddhism, Hinduism, and Islam have their roots in ancient and medieval civilizations; China introduced the world to new technologies—for example, silk making, paper, gunpowder, and new philosophies, such as Confucianism and Daoism; Mesoamerica and South America were home to developed civilizations such as the Maya, Aztec, and Inca before the arrival of European conquerors; The African kingdoms of Ghana, Mali, and Songhai dominated West Africa during Europe's medieval period. Students learn and apply skills related to geography, historical analysis and reasoning, evaluating and using primary and secondary sources, and developing logical arguments. Additionally, special topics, like ecotourism, are introduced and examined. Projects are provided to allow for a deeper application of skills. The projects are designed to foster independent learning by empowering students to make their own choices about the types of work products they create, the specific areas they wish to research, and the practical application of concepts. As students navigate these decisions, they develop self-management skills that help them organize, plan, and complete their activities effectively.

Semester B
The 7th Grade Social Studies B course recounts important historical themes and events in world history from the Renaissance to modern day. Topics include the following: The Renaissance marked a renewed interest in the past as well as exploration of philosophy and artistic styles; The Protestant Reformation and the Counter-Reformation transformed European religion and politics; Interest in Asian trade and the development of new technologies sparked European exploration and colonization; During the Scientific Revolution and Enlightenment, Western scientists and thinkers applied reason and systematic study to seek to understand the physical world, human nature, and society; World War I was shaped by new technologies such as tanks, machine guns, and poison gas; World War II was a global effort to stop German expansionism in Europe and Japanese expansionism in Asia; After World War II, the Cold War between the United States and the Soviet Union helped shape events in Europe, Asia, and Latin America; The dissolution of colonial empires after World War II included conflicts in South Asia, Southwest Asia, Southeast Asia, and Africa; The early twenty-first century has been shaped by globalization, migration, terrorism, regional conflict, eradication of disease, and climate change.

Students learn and apply skills related to geography, historical analysis and reasoning, analyzing visual sources, and developing logical arguments. Additionally, special topics, like chronological thinking, fact versus opinion, analyzing continuity and change, cultural diffusion and economic specialization, are introduced and examined. Projects are provided to allow for a deeper application of skills. The projects are designed to foster independent learning by empowering students to make their own choices about the types of work products they create, the specific areas they wish to research, and the practical application of concepts. As students navigate these decisions, they develop self-management skills that help them organize, plan, and complete their activities effectively.

Course Requirements

Grade Level - 7th Grade
Duration - 2 Semesters
Materials – None

8TH GRADE SOCIAL STUDIES - A & B

Semester A

The 8th Grade Social Studies A course recounts important historical themes and events in United States history from the precolonial era to the 1800s. Topics include the following: Theories of how the Americas were inhabited by diverse indigenous peoples; How the thirteen English colonies were established; How the Americans fought the British for liberty and justice; The creation of the Constitution and Bill of Rights soon after America's independence from England, and the U.S. became the first country to create a government of the people; Compromise over the issue of slavery eventually led to the Civil War; The Westward expansion of the United States provided economic opportunity for many and contributed to the growth of the nation, but it came at the price of Native-American sovereignty. Students learn and apply skills related to geography, historical analysis and reasoning, evaluating and using primary and secondary sources, determining credibility or bias when gathering evidence, and developing claims and counterclaims. Additionally, special topics, like the electoral college, are introduced and examined. Projects are provided to allow for a deeper application of skills. The projects are designed to foster independent learning by empowering students to make their own choices about the types of work products they create, the specific areas they wish to research, and the practical application of concepts. As students navigate these decisions, they develop self-management skills that help them organize, plan, and complete their activities effectively.

Semester B

The 8th Grade Social Studies B course recounts important historical themes and events in modern United States history from the late 1800s to the 2000s. Topics include the following: The U.S. became a world power during the late 1800s and early 1900s, a period marked by immigration, industrialization, and urbanization; The U.S. experienced economic, technological, scientific, and social changes during the 1900s; The U.S. supported the Allies in World War I; The U.S. experienced highs and lows during the Roaring Twenties, the stock market crash, and the Great Depression; The U.S. entered World War II after Japan's attack on Pearl Harbor; The U.S. developed the atomic bomb; The U.S. and the Soviet Union competed for global influence during the Cold War. The 1960s and 1970s were decades of social change; The 1980s and 1990s saw economic growth and involvement in regional conflicts; The early 2000s brought economic, environmental, political, and international challenges, including 9/11 and the war in Iraq. Students learn and apply skills related to geography, problem solving, constructing historical arguments using reasoning, evaluating primary sources from multiple perspectives, distinguishing fact from opinion, and developing claims and counterclaims. Additionally, special topics, like analyzing political cartoons, are introduced and examined. Projects are provided to allow for a deeper application of skills. The projects are designed to foster independent learning by empowering students to make their own choices about the types of work products they create, the specific areas they wish to research, and the practical application of concepts. As students navigate these decisions, they develop self-management skills that help them organize, plan, and complete their activities effectively.

Course Requirements

Grade Level - 8th Grade
Duration – 2 Semesters
Materials – None

ELECTIVES - WORLD LANGUAGES

MS FRENCH 1 - A & B

French 1 focuses on developing listening skills by repeated exposure to the spoken language. Speaking skills are encouraged through recommended assignments using voice tools. Reading and writing skills, as well as language structures, are practiced through meaningful, real-life contexts. The use of technology enhances and reinforces authentic language development and fosters cultural understandings through exposure to native speakers and their daily routines.

Course Requirements

Grade Level - 6th - 8th Grade
Duration - 2 Semesters
Materials – None

MS FRENCH 2 - A & B

Semester A

Semester A focuses on the continuation and enhancement of language skills presented in French 1. Vocabulary and grammar structures are revisited and expanded to provide students an opportunity to move towards an intermediate comprehension level. Speaking and listening skills are enhanced through recommended real-life voice activities. Listening skills are honed through online dialogues. Reading and writing skills are developed through access to completion of meaningful activities, reading of culturally related articles of interest and responding to reading in the target language. The use of technology enhances and reinforces authentic language development and fosters cultural understandings through exposure to native speakers and their daily routines.

Semester B

Semester B continues the enhancement of language skills. Vocabulary and grammar structures are revisited and expanded as students explore other French-speaking areas. Speaking and listening skills are enhanced through recommended real-life voice activities. Listening skills are honed through online dialogues. Reading and writing skills are developed through access to completion of meaningful activities related to travel, to the Olympics, to natural disasters, and to the space program. Reading of culturally related articles of interest and responding to reading in the target language, along with the use of technology, reinforces authentic language development and fosters cultural understanding through exposure to native speakers and their daily routines.

Course Requirements

Grade Level – 6th - 8th Grade
Duration - 2 Semesters
Materials - Semester B only - Joie De lire! Intermediate Reader Level 2. July 19, 2002 By Rinehart and Winston Holt
Prerequisites - French 1

MS GERMAN 1 - A & B

Semester A

The German 1 course is an introductory course teaching basic comprehension and communication in German. It coordinates the study of language with culture through the use of video, audio and media production. This course assumes no prior knowledge of the German language. It introduces the fundamentals of conversational and grammatical patterns of the German language with presentations to show the material. Students who complete the course successfully will begin to develop a functional competency in the four primary language areas: speaking, reading, listening and writing, while establishing a solid grammatical base and exploration into German culture.

Semester B

The second semester course will expand on the knowledge gained from German 1A and further develop their skills in pronunciation, grammar skills, grammar structures and vocabulary. Oral practice (via Voice Tools), homework assignments, games, songs, watching videos, quizzes, tests, projects and other activities such as writing wikis and journal entries, will be emphasized to accomplish this goal. The different cultures of the German-speaking world are emphasized through readings, videos and other activities. Taking the time to learn another language is a mind-expanding activity that can open up a world of opportunities and advantages.

Course Requirements

Grade Level - 6th - 8th Grade
Duration – 2 Semesters
Materials – None

MS GERMAN 2 - A & B

Semester A

In this course, students build on grammar and language skills that they acquired during their German 1 course. While reviewing basic grammar skills, (present and past tenses), students learn and study stem-changing verb conjugation and explore cultural themes regarding current events, famous German people, music and famous festivals.

Semester B
In the second semester course, students increase their proficiency in being able to communicate by forming more complex German sentences in a variety of tenses using all four cases (Nominative, Accusative, Dative and Genitive). The variety of topics increases also, from exploring different careers to discussing relationships. Cultural themes are entwined throughout this course related to going shopping, to going to the zoo and also to travel throughout the German-speaking world.
Course Requirements
Grade Level – 6th - 8th Grade
Duration - 2 Semesters
Materials - None
Prerequisites - German 1

MS SPANISH 1 - A & B
Semester A
This course introduces students to the beauty of the Spanish language and the richness of its diverse cultures. In the Spanish 1 course, students will learn beginning grammar and vocabulary skills to help build basic fluency and language proficiency. They will explore the culture of Spanish-speaking countries through engaging interactive games, videos, and audio recordings and apply their learning through written practice, listening, and speaking exercises.
Semester B
Students explore how to discuss school subjects, professions, and daily routines, as well as illness and injury, shopping, and money through reading, writing, listening, and speaking. The course also explores cultures of some Spanish-speaking countries, such as Venezuela, Chile, Ecuador, Guatemala, and Cuba.
Course Requirements
Grade Level - 6th - 8th Grade
Duration - 2 Semesters
Materials – None

MS SPANISH 2 - A & B
Semester A
In Spanish 2, students continue learning grammar and vocabulary skills to help build basic fluency and language proficiency. They will explore more of the culture of Spanish-speaking countries through engaging interactive games, videos, and audio recordings and apply their learning through written practice, listening, and speaking exercises. Topics include family traditions in Spanish-speaking countries; likes and dislikes; sports and pastimes, and travel. Students will learn more about conjugating verbs, as well as using prepositions and infinitives.
Semester B
Students continue to build reading, writing, listening, and speaking skills in order to discuss transportation, extracurricular interests, professions, cuisine, clothing, health, and technology. Topics included: present, past, future, and conditional tenses, present subjunctive mood, explores cultures of some Spanish-speaking countries, such as the Dominican Republic, Equatorial Guinea, Honduras, Uruguay, and Panama.
Course Requirements
Grade Level – 6th - 8th Grade
Duration - 2 Semesters
Materials - None
Prerequisites - Spanish 1

ELECTIVES

6TH GRADE PHYSICAL EDUCATION*
This course explores fitness, nutrition, exercise basics, and specific sports. Topics include fundamental aspects of physical activity (safety tips, warm-up and cooldown exercises, and good sportsmanship), personal fitness and nutrition, and the importance of regular exercise to encourage lifelong healthy activity. Sports in the course include dance, baseball, basketball, pickleball, volleyball, soccer, and football. Project 1 creates a health and fitness log and project 2 explores the basics of golf.
Course Requirements
Grade Level - 6th Grade
Duration - 1 Semester
Materials - None

7TH GRADE PHYSICAL EDUCATION*
This course explores the importance of physical fitness for good health and provides opportunities to participate in a wide variety of activities. Topics include running, strength training, dancing, swimming, pickleball, tennis, volleyball, baseball, bowling, basketball, soccer, and football. Other activities include keeping an exercise and nutrition log and creating an exercise routine for themselves, as well as the importance of warming up and cooling down muscles before and after exercise, health-related versus skill-related fitness, goal setting, and safety.
Course Requirements
Grade Level - 7th Grade
Duration - 1 Semester
Materials - None

8TH GRADE PHYSICAL EDUCATION*

This course explores personal health and wellness benefits of physical fitness with a variety of activities, a fitness and nutrition log, and two projects. Project, one creates a personal fitness plan and project two creates a synchronized swim routine. Topics include endurance and flexibility applied in activities such as running, hiking, stretching, and dancing, as well as improving fitness and well-being with heart-rate monitoring, nutrition tracking, and interval training. Sports skills are practiced in pickleball, tennis, soccer, hockey, football, baseball, basketball, and bowling.

Course Requirements

Grade Level - 8th Grade
Duration - 1 Semester
Materials – None

MS 2D STUDIO ART*

Do you like to draw, paint, or take pictures? Whatever medium you prefer, this course will teach you the design elements and principles needed to create a work of art and explore your artistic inspirations. You'll also travel back in time to look at art in different cultures and learn about the art of critiquing. Let's turn your creative dreams into reality!

Course Requirements

Grade Level – 6th - 8th Grade
Duration - 1 Semester
Materials – None

MS ART EXPLORATIONS*

Introducing students to diverse areas in the arts can broaden their perspective on the arts in general. Arts Explorations encourages students to experience each of the modern arts disciplines including Visual Arts, Theatre, Music, Media Arts and Dance. Students will also be able to identify areas of special interest where they would like continued study and the ways that the arts can be a part of their career paths.

Course Requirements

Grade Level - 6th - 8th Grade
Duration - 1 Semester
Materials – None

MS BASIC DRAWING*

Students will experiment with several different art materials and tools to see what each tool can do best. Students will explore ordinary things around them to become more observant of the structures and meanings of things which can be seen in their home and community. Student work will be their own study of the forms, textures, movements, and patterns of the things that are seen every day. Each project and each lesson is based on the one before it; so lessons should be completed in the order they are given. Directions should be followed exactly regarding which materials, sizes, and subject matter to use for each project. Each lesson will be a study of a new way of drawing. The examples given will show only the method and materials to be used, never the same subject or size as the project assigned. The examples are never to be copied. An example will only show one way of using the technique described. By becoming more observant, experimenting with new materials, and exploring a variety of methods, students will continue to grow in artistic skill and enjoyment. Beyond fundamental skills built are various levels of creativity. Each lesson provides room for expressing the technical skill learned in a unique, creative way.

Course Requirements

Grade Level - 6th - 8th Grade
Duration - 1 Semester
Materials - listed in Appendix A

MS CAREER EXPLORATION*

How do you pick a career path when you're not sure what's even out there? This course allows you to begin exploring options in fields such as teaching, business, government, hospitality, health science, IT, and more! You'll align your interests, wants, and needs to career possibilities, including the required education for each. Let's find a pathway that works for you.

Course Requirements

Grade Level - 6th - 8th Grade
Duration - 1 Semester
Materials – None

MS CRITICAL THINKING A & B

Semester A

Our brains are incredible tools, and they help us observe, analyze, create, and take action every single day. In this course, you are going to learn to unlock one of your brain's most stunning powers: critical thinking. Get ready to go on an adventure and solve mysteries by applying your own critical thinking skills as you make your way through your units. Then you'll use these specialized skills towards issues in the real-world both inside and outside of the classroom.

Semester B

You have already learned that critical thinking skills are especially important for you as you are experiencing emotional and physical changes and trying to determine friendships, interests, politics, and more. In this course, you'll learn more about the foundational skills you need to think logically and critically: observation, evaluation, and analysis. You'll also learn about things like deductive and inductive reasoning, logical fallacies, verbal and nonverbal communication, components of a debate and debate etiquette, and more.

Course Requirements

Grade Level – 6th - 8th Grade
Duration - 2 Semesters
Materials – None

MS DIGITAL ART AND DESIGN*

The world is filled with so many different forms of art – including digital art. In this course, you'll explore this special genre of art found in everything from advertising to animation to photography and beyond. Additionally, you'll tap into your creative side to create digital art and make it come alive.

Course Requirements

Grade Level – 6th - 8th Grade
Duration - 1 Semester
Materials - None

MS EXPLORING MUSIC*

What comes to mind when you hear the word 'music'? Do you think about your favorite band or artist? In this course, you'll learn about how we hear music; how music affects our lives; essential elements of music like rhythm, pitch, and harmony; different musical genres; singing and your voice; various instruments; music composition; and the history and culture of music over the years.

Course Requirements

Grade Level - 6th - 8th Grade
Duration - 1 Semester
Materials – None

MS HEALTH*

This course explores how behavioral choices, such as nutrition and physical activity, affect health, then provides information to make healthy choices. Topics include nutrition and physical activity; growth, developmental health; safety and injury prevention; mental, emotional, and social health; and personal and community health and other relevant topics.

Course Requirements

Grade Level - 6th - 8th Grade
Duration - 1 Semester
Materials – None

MS PHOTOGRAPHY 1A*

Students explore proper use of photography equipment, how to build a portfolio of work, and describes the steps to starting a career in this field. Topics include the habits and etiquette of the profession. Photography equipment is not needed. Practice is offered through digital simulations.

Course Requirements

Grade Level - 6th - 8th Grade
Duration - 1 Semester
Materials - Digital camera or smartphone with apps

MS SCRATCH CODING*

Scratch Coding introduces the basics and logic of programming language in Scratch. Topics include introducing and using the different tools in Scratch; creating programs that include loops, variables, lists, or conditionals; and identifying and fixing errors in a program. The course concludes with putting the tools and concepts altogether to create a larger program.

Course Requirements

Grade Level – 6th - 8th Grade
Duration - 1 Semester
Materials - None

COURSE LIST MIDDLE SCHOOL 6-8

LANGUAGE ARTS
6TH GRADE LANGUAGE ARTS - A & B
7TH GRADE LANGUAGE ARTS - A & B
8TH GRADE LANGUAGE ARTS - A & B
INTENSIVE READING*

MATH
6TH GRADE MATH - A & B
7TH GRADE MATH - A & B
8TH GRADE MATH - A & B
PRE-ALGEBRA – A & B

SCIENCE
6TH GRADE SCIENCE - A & B
7TH GRADE SCIENCE - A & B
8TH GRADE SCIENCE - A & B

SOCIAL STUDIES
6TH GRADE SOCIAL STUDIES - A & B
7TH GRADE SOCIAL STUDIES - A & B
8TH GRADE SOCIAL STUDIES - A & B

ELECTIVES - WORLD LANGUAGES
MS FRENCH 1 - A & B
MS FRENCH 2 - A & B
MS GERMAN 1 - A & B
MS GERMAN 2 - A & B
MS SPANISH 1 - A & B
MS SPANISH 2 - A & B

ELECTIVES
6TH GRADE PHYSICAL EDUCATION*
7TH GRADE PHYSICAL EDUCATION*
8TH GRADE PHYSICAL EDUCATION*
MS 2D STUDIO ART*
MS ART EXPLORATIONS*
MS BASIC DRAWING*
MS CAREER EXPLORATION*
MS CRITICAL THINKING A & B
MS DIGITAL ART AND DESIGN*
MS EXPLORING MUSIC*
MS HEALTH*
MS PHOTOGRAPHY 1 A*
MS SCRATCH CODING*

KHDA COURSES (UAE STUDENTS ONLY)
MORAL, SOCIAL & CULTURAL STUDIES
NON-NATIVE/ NATIVE ISLAMIC STUDIES
NON-NATIVE/ NATIVE ARABIC

To graduate and receive a High School diploma, students must earn 24 credits in the following subjects. A student must be FULL-TIME their senior year to be eligible for a diploma. The two last semesters of a student's senior year must be taken consecutively.

SUBJECTS	CREDITS
English	4 credits
Math	4 credits (Algebra 1 and higher)
Science	4 credits (must include 2 Lab Science credits)
History & Social Science	4 credits
World Language	2 credits (must be 2 credits of the same language, non-English language course)
Physical Education	0.5 credits
Health	0.5 credits
Electives	5 credits
Total	24 Credits

ENGLISH

ENGLISH 9 - A & B
Semester A
Students explore reading, writing, and analysis using both informational and literary texts, as well as comparison of texts in different mediums. Readings include The Princess and the Goblin by George MacDonald, among others, to demonstrate understanding of textual evidence, themes, central ideas, inferences, word choice, and figurative and connotative language, and grammar and usage. Writings include a personal narrative (memoir) and a literary analysis.
Semester B
Students explore reading, writing, and analysis using both informational and literary texts. Readings include Anthem by Ayn Rand, among other texts of varying time periods to demonstrate concepts such as textual evidence, themes, central ideas, characters, inferences, rhetorical techniques, structure and style, and arguments and claims. Writing topics include grammar, usage, punctuation, spelling, style manuals, phrases, and clauses, culminating in an informational essay and an argument essay.
Course Requirements
Grade Level - 9th Grade
Duration – 2 Semesters
Materials - None

ENGLISH 10- A & B
Semester A
Students examine reading, writing, and analysis of informational texts, argument texts, and videos to demonstrate understanding of explicit and inferred meaning, textual evidence, central ideas, arguments and claims, organizational structures, figurative and rhetorical language, and the effect of word choice on tone. Skill building focuses on spelling, grammar, usage, punctuation, domain-specific vocabulary, context clues, and affixes. Writing topics include an informational essay and an argument essay.
Semester B
Students explore reading, writing, and analysis of literary texts from around the world and across history. Readings include Antigone by Sophocles, among others, to demonstrate understanding of textual evidence, themes, inferences, characterization, figurative language, figures of speech, and literary devices, as well as building about foundational knowledge of context clues, word nuances, affixes, phrases, clauses, and parallel construction. Writing topics include a literary analysis essay and a personal narrative essay.
Course Requirements
Grade Level - 10th Grade
Duration - 2 Semesters
Prerequisites – English 9 or equivalent
Materials - None

ENGLISH 11 - A & B
Semester A
Students examine reading, writing, and analysis using both informational and argument texts. Readings include seminal US texts such as "What to the Slave Is the Fourth of July?" by Frederick Douglass, speeches, court documents, and scientific articles to explore textual evidence, central ideas, inferences

word choice, figurative language, spelling, hyphens, contest- ed usage, figures of speech, and reference materials. Writing topics include a researched informational essay and a researched argument essay.

Semester B

Students explore reading, writing, and analysis using both informational and literary texts. Readings include poetry and drama, such The Crucible by Arthur Miller to demonstrate literary elements of plot, setting, character, themes, and central ideas. Comparing works from different time periods, reviewing context and word nuances, and learning about punctuation, style manuals, phrases, clauses, and parallel structure to improve reading and writing skills. Writing topics include a fictional narrative and a literary analysis.

Course Requirements

Grade Level - 11th Grade
Duration - 2 Semesters
Prerequisites – English 10 or equivalent
Materials - None

ENGLISH 12 - A & B

Semester A

Students explore analysis of informational and argument texts. Readings include seminal US texts such as the Declaration of Independence, presidential speeches, court documents, and articles related to innovative technology to demonstrate rhetoric, figurative language, theme, purpose, specialized vocabulary, text structure, word nuances, inferences, research, evidence, and reference sources. In addition, students learn about context clues, contested usage, and syntax errors. Writings include a researched informational essay and a researched argument essay.

Semester B

Students analyze narrative texts from British literature from the Middle Ages through modern times. Demonstrated skills include explicit and implicit meanings, figurative language, literary devices, central ideas, themes, and narrative and structural elements. Writings include a fictional narrative in the style of Gothic Romanticism and a literary analysis comparing and contrasting two British literature texts of different eras.

Course Requirements

Grade Level - 12th Grade
Duration - 2 Semesters
Prerequisites – English 11 or equivalent
Materials - None

HONORS ENGLISH

HONORS ENGLISH 9 - A & B

Semester A

Students explore reading, writing, and analysis using both informational and literary texts, as well as comparison of texts in different mediums. Readings include The Princess and the Goblin by George MacDonald, among others, to demonstrate understanding of textual evidence, themes, central ideas, inferences, word choice, and figurative and connotative language, and grammar and usage. Writings include a personal narrative (memoir) and a literary analysis.

Semester B

Students explore reading, writing, and analysis using both informational and literary texts. Readings include Anthem by Ayn Rand, among other texts of varying time periods to demonstrate concepts such as textual evidence, themes, central ideas, characters, inferences, rhetorical techniques, structure and style, and arguments and claims. Writing topics include grammar, usage, punctuation, spelling, style manuals, phrases, and clauses, culminating in an informational essay and an argument essay.

Course Requirements

Grade Level - 9th Grade
Duration - 2 Semesters
Materials – None

HONORS ENGLISH 10 - A & B

Semester A

Students investigate the writing and discourse processes while supplementing them with the reading and grammar strategies necessary to comprehend and compose nonfiction texts. Exploration of language skills in writing topics include researching, organizing, and developing descriptive, persuasive narrative, and expository compositions.

Semester B

This semester explores literature from multiple eras and cultures. Readings include epic poetry, folktales, ancient verses, Greek tragedy such as Antigone by Sophocles, short stories, and excerpts from novels to examine language, ideas, characters, and literary elements. Exploration of evidence, context clues, symbolism, affixes, and denotative and connotative meanings are provided in short research and writing projects. Writing topics also include a character analysis and a personal narrative.

Course Requirements

Grade Level - 10th Grade
Duration - 2 Semesters
Prerequisites – English 9 or equivalent
Materials - None

HONORS ENGLISH 11 - A & B
Semester A
Students examine seminal US documents ranging from Thomas Paine's Common Sense through contemporary speeches by the President, among other texts to demonstrate knowledge of the use of rhetorical devices, inference, symbolism, bias, and the drawing of conclusions. The course focuses on argument and persuasion through formal speaking and writing.
Semester B
Students explore American writers and the historical events that influenced their works. Reading selections include The Red Badge of Courage by Stephen Crane, works the following eras and influences: Transcendentalism, Romanticism, American Gothic, American Civil War, Regionalism, Realism, Naturalism, Imagist, Harlem Renaissance, and Modernism. The course emphasizes critical and analytical thinking as well as reading and writing skills.
Course Requirements
Grade Level - 11th Grade
Duration - 2 Semesters
Prerequisites – English 10 or equivalent
Materials - None

HONORS ENGLISH 12 - A & B
Semester A
Students explore rhetoric using informational texts, including seminal US documents that shaped legal and social policy to examine reasoning that includes the chain of legal reasoning. Honors includes additional examples and practice for students.
Semester B
Students synthesize knowledge and use critical thinking to analyze narrative texts from British literature across different eras—from the Middle Ages through modern times. Students read Frankenstein by Mary Shelley along with works by British writers such as Shakespeare and Tolkien. These reading selections demonstrate concepts such as narrative elements and structures, literary devices such as symbolism and sarcasm, and inference. Topics include vocabulary, context clues, word choice, and affixes. In addition, students write a fictional narrative and a literary analysis.
Course Requirements
Grade Level - 12th Grade
Duration - 2 Semesters
Prerequisites – English 11 or equivalent
Materials - None

MATH

ALGEBRA 1 - A & B
Semester A
Students explores the application of properties to simplify expressions with exponents and radicals, relationships between rational and irrational numbers, solving linear equations and inequalities, applying knowledge of linear equations and inequalities to solve and graph systems of linear equations and inequalities, applying operations on polynomials, factoring quadratic expressions, and solving quadratic equations using different methods.
Semester B
Students explores the analysis of different types of functions presented as equations, graphs, tables, verbal descriptions, identifying key features applied to real-world problems, using key features to compare different types of functions, transformations of functions, statistics, interpreting and analyzing data sets, as well as causation and correlation.
Course Requirements
Grade Level - 9th - 12th Grade
Duration - 2 Semesters
Materials – None

GEOMETRY - A & B
Semester A
Students explore writing formal proofs and constructing geometric figures. Topics include transformations to explain the concepts of congruent and similar figures with a focus on the properties of congruent and similar triangles. Properties are proved with postulates, theorems, and formal proofs, as well as trigonometric ratios and their applications to real-world situations.
Semester B
Students explores writing formal proofs and constructing geometric figures. Topics included: slopes, midpoints, distance formula with a focus on their applications in coordinate proofs, theorems about circles as well as concepts related to circles, and two and three-dimensional figures and probability.
Course Requirements
Grade Level - 9th - 12th Grade
Duration - 2 Semesters
Materials - None
Prerequisites - Algebra 1

ALGEBRA 2 - A & B
Semester A
Students explore solving quadratic equations with complex solutions and performs operations on polynomials, uses polynomial identities to solve problems, analyzes polynomial functions using different representations, and solves polynomial equations graphically, works with rational functions, and performing arithmetic operations on rational functions to graph them.
Semester B
Students explore radical equations, rewriting expressions involving radicals, and graphing and solve radical equations. Concepts of trigonometry include ratios and using the unit circle to understand them, graph sine, cosine, and tangent functions, and explore key features to prove and apply trigonometric identities.
Course Requirements
Grade Level - 9th - 12th Grade
Duration - 2 Semesters
Materials - None
Prerequisites - Geometry

INTEGRATED MATH 1 - A & B
In Integrated Math 1, students use arithmetic properties of subsets of integers and rational, irrational and real numbers by simplifying expressions, solving linear equations and inequalities, graphing equations, finding the equation of a line, working with monomials and polynomials, and factoring and completing the square. Students use properties of the number system to judge the validity of results, justifying each step of the procedure to prove or disprove statements. Students compute perimeter, circumference, are, volume and surface area of geometric figures. Students also use basic trigonometric functions defined by the angles of a right triangle.
Course Requirements
Grade Level - 9th - 12th Grade
Duration - 2 Semesters
Materials – None

INTEGRATED MATH 2 - A & B
Semester A
Students begin the course learning about the algebraic concepts of functions, equations, inequalities, and complex numbers. They explore exponential and radical expressions, work with polynomials, and apply their knowledge to real-world problems by using algebraic expressions, pictorial and symbolic representation.
Sem B
Students begin this course by studying probability and then transition into the study of logic and geometric proofs. They continue their geometry study of triangles, parallel and perpendicular lines and angles, and then transition into the study of trigonometric ratios and the application of trigonometry. This course ends with a comprehensive look at circles.
Course Requirements
Grade Level - 10th - 12th Grade
Duration - 2 Semesters
Materials - None
Prerequisites - Integrated Math 1 or equivalent

PRE-CALCULUS - A & B
Semester A
In this course, students will understand and apply concepts, graphs and applications of a variety of families of functions, including polynomial, exponential, logarithmic, logistic and trigonometric. An emphasis will be placed on use of appropriate functions to model real world situations and solve problems that arise from those situations. A focus is also on graphing functions by hand and understanding and identifying the parts of a graph. A scientific and/or graphics calculator is recommended for work on assignments, and on examinations.
Semester B
Pre-Calculus Semester B covers the major units of Introductory Trigonometry and Graphs, Trigonometric Equations and Identities, Analytical Trigonometry, Sequences and Series, Conic Sections and an Introduction to Calculus. A focus is also on graphing functions by hand and understanding and identifying the parts of a graph.
Course Requirements
Grade Level - 11th - 12th Grade
Duration - 2 Semesters
Materials - None
Prerequisites - Algebra 2

HONORS MATH

HONORS ALGEBRA 1 - A & B
In the Honors course, students will do in-depth study, problem-solving and application of algebraic concepts.
Semester A
Students explore algebraic problems and apply the knowledge to real-life situations. Topics include linear inequalities, forms of linear equations, relate linear equations and functions, solve systems of equations and systems of inequalities, interpret solutions mathematically and contextually, statistics, measures of central tendency, relative frequencies, and scatter plots.

Semester B
Students explore functions by exploring new families of functions, the effect of different transformations, key features of their graphs, and how they compare functions represented in different ways. Additional topics include polynomials on quadratics, quadratic equations and their graphs, various methods of factoring and solving quadratic equations, exponential growth and decay, and how linear, quadratic, and exponential functions compare to one another.
Course Requirements
Grade Level - 9th - 12th Grade
Duration - 2 Semesters
Materials – None

HONORS GEOMETRY - A & B
Semester A
Students examine congruence, proofs, and constructions to prove statements about lines, angles, triangles, and quadrilaterals; apply the knowledge of transformations to learn a formal definition for similarity to write proofs, are introduced to trigonometry through its connection to the concept of similarity, derive and use formulas for the areas and volumes of two- and three-dimensional figures, and investigate cross sections and solids of revolutions.
Semester B
Students explore the Pythagorean theorem, distance formula, midpoint formula, and slope formula to solve geometric problems and develop coordinate proofs. Topics include understand and apply theorems about circles to find arc lengths and areas of sectors of circles; apply the distance formula to write equations of circles in the coordinate system; and understand the concepts of permutations and combinations to explore the concept of probability.
Course Requirements
Grade Level - 9th - 12th Grade
Duration - 2 Semesters
Materials - None
Prerequisites - Algebra 1 or equivalent

HONORS ALGEBRA 2 - A & B
Semester A
Students explore polynomial, rational, radical, and trigonometric functions, solving equations, including quadratic equations over the complex numbers, as well as rational and radical equations.
Semester B
Students explore modeling real-life situations with equations and inequalities, solving exponential equations with logarithms, and synthesizing and generalizing a variety of functions families, how to make probability decisions and how to use statistics and sampling processes to under- stand data sets and answer questions about samples and populations.
Course Requirements
Grade Level - 9th - 12th Grade
Duration - 2 Semesters
Materials - Calculator
Prerequisites – Geometry

SCIENCE

PHYSICAL SCIENCE - A & B
Semester A
Students examine science as a whole and leads to how methods and tools provide scientists meaningful results. Topics included: chemistry to interpret chemical names, formulas, equations, and models to discover the types and properties of reactions and nuclear reactions and their uses, historical perspectives, and the social impacts.
Semester B
Students explore physics, introduces topics in engineering, and the ways scientists think, communicate, and do their jobs. The topics of motion and force, including the motion of fluids and Newton's law build a foundation to explore thermodynamics, energy, work, machines, waves, electricity, and magnetism.
Course Requirements
Grade Level - 9th - 12th Grade
Duration - 2 Semesters
Materials - None

EARTH SCIENCE - A & B
Semester A
The first three modules of Semester A cover Scientific Inquiry, the Structure and Composition of the Universe, and the Features of the Solar System. Students learn the importance of scientific inquiry and how to communicate the results of scientific investigations. They then have material on the formation of the universe, including the Big Bang Theory, the motions of celestial objects, and stellar evolution. The third module covers material related to the Solar System, including features of the Sun and the planets and the movements of Earth. The second three modules of Semester A cover Weather,

Climate, and Earth's Water Cycle. Students first learn in Module 4 about the atmosphere and clouds, as well as the factors that influence local and global climate. In Module 5 they continue by learning about weather and air masses, meteorology and storms. Module 6 then discusses the water cycle, including groundwater and ocean features, as well as water scarcity and pollution.

Semester B

The first three modules of Semester B cover the physical structure of the Earth and Earth's tectonic system, including the rock cycle, tectonic activity, and mountain building. It then covers weathering and erosion and soil formation. The next material in the course then addresses the concept of systems; it addresses the Earth as a system, feedback in systems, and Earth's major nutrient cycles. The second three modules of Semester 2 cover geologic history, including the evolution of Earth's atmosphere, the geologic time scale, and the fossil record. It then goes over natural resources and the effects of human population on natural resources. The course wraps up with a discussion of human society and its interconnectedness with the Earth's environment, how science and technology work together, and the technological design process in earth science applications.

Course Requirements

Grade Level - 9th - 12th Grade
Duration - 2 Semesters
Materials - None

BIOLOGY - A & B

Semester A

Students examine the basics of biochemistry and how it helps understand biological systems on Earth. Using logical thinking to identify relationships and draw conclusions, the course expands out from the building blocks of biochemistry to individual cells and cell membranes to understand cell division, reproduction, cell energy and metabolism, and photosynthesis.

Semester B

Students examine the basics of genetics, natural selection, ecology, model how matter and energy flow through ecosystems, and the technology to see the larger context and implications. Topics included: biological research topics of ethical guidelines in new biotechnology.

Course Requirements

Grade Level - 9th - 12th Grade
Duration - 2 Semesters
Materials – None
Prerequisites – Algebra 1

CHEMISTRY - A & B

Students examine basic principles and properties of matter to see its everyday uses. Topics included: atomic models, predicting chemical reactions to see how scientists can engineer them to solve problems.

Course Requirements

Grade Level - 10th - 12th Grade
Duration - 2 Semesters
Materials - Graphing Calculator
Prerequisites - Algebra 1 & Geometry

PHYSICS - A & B

Semester A

Students begin their exploration of physics by reviewing the International System of Units (SI), scientific notation, and significant digits. They then learn to describe and analyze motion in one and two dimensions. Students learn about gravity and Newton's laws of motion before concluding the course with an examination of circular motion. Students apply mathematical concepts such as graphing and trigonometry in order to solve physics problems. Throughout the course, students apply their understanding of physics by playing roles like science museum curator and elementary teacher.

Semester B

Physics B continues the student's exploration of mechanics while also guiding them through some other important topics of physics. Students begin by exploring simple harmonic motion, wave properties, and optics. Students then learn the basics of thermodynamics and fluids. Afterwards, the students explore the principles of electricity and magnetism. Finally, students explore the area of physics known as Modern Physics, which includes topics such as the photoelectric effect, nuclear science, and relativity. This is a trig-based course. It is assumed you know and can use trigonometry.

Course Requirements

Grade Level - 11th - 12th Grade
Duration - 2 Semesters
Materials - Graphing Calculator
Prerequisites - Algebra 1 and Geometry

ANATOMY AND PHYSIOLOGY - A & B

Semester A

Whether you plan on pursuing a career in health sciences or simply looking to gain an understanding of how the human body works, you'll first need to understand the relationship between anatomy and physiology. Learn how to read your body's story through understanding cell structure and their processes, and discover the functions and purposes of the skeletal, muscular, nervous, and cardiovascular systems, as well as diseases that affect those systems.

Semester B

Examine the form and function of even more body systems. Learn about the structure, function, and interrelation between the lymphatic, immune, respiratory, digestive, urinary, and endocrine systems. The reproductive system is also discussed along with hereditary traits and genetics. And discover the importance of accurate patient documentation as well as the technology used in the industry.

Course Requirements

Grade Level - 10th - 12th Grade
Duration - 2 Semesters
Materials - None
Prerequisites – Biology

ENVIRONMENTAL SCIENCE A & B

Semester A

Environmental Science A examines the relationships between organisms and the environment, including impacts of research on scientific thought and the environment by using scientific practices, evidence-based data and its display, as well understanding how data informs societal decision making.

Semester B

Environmental Science B examine the relationship between humans and the environment including the past, present and future impacts of resource utilization, identifies pollution of the air, soil and water and its sources and discusses regulations and actions that can and have been taken to mitigate harm to the Earth.

Course Requirements

Grade Level - 9th - 12th Grade
Duration – 2 Semesters
Materials – None

HONORS SCIENCE

HONORS BIOLOGY - A & B

Semester A

Students examine life at the cellular level by understanding how the scientific method is used by scientists to investigate questions and present their findings. Topics include chemical makeup and size of cells, cell structure, the flow of energy, and how traits are inherited.

Semester B

Students examine life on Earth from a big picture perspective by exploring the evolution of species and the history of life on Earth. Topics include living organisms from microorganisms to plants and animals, the human body systems, ecology, and how humans interact with the environment. Historical perspectives and societal impact of biology are included in each lesson.

Course Requirements

Grade Level - 9th - 12th Grade
Duration - 2 Semesters
Materials – None
Prerequisites - Algebra 1

HONORS CHEMISTRY - A & B

Semester A

Students examine basic principles and properties of matter to see its everyday uses. Topics include atomic models, and predicting chemical reactions to see how scientists can engineer them to solve problems. The Honors course offers additional examples and practice.

Semester B

This semester culminates in the ability to evaluate the ethical and social implications of chemistry-related technologies. Topics include matter, types of bonds and forces that hold atoms and molecules together, states of matter, phase changes, gas laws, solutions, thermodynamics and kinetics of chemical reactions, chemical equilibrium and electrochemistry, radiation and the difference between nuclear fission and fusion. The Honors course offers additional examples and practice.

Course Requirements

Grade Level - 10th - 12th Grade
Duration - 2 Semesters
Materials - None
Prerequisites - Algebra – Geometry

HONORS PHYSICS - A & B
Semester A
Students begin their exploration of physics by reviewing the International System of Units (SI), scientific notation, and significant digits. They then learn to describe and analyze motion in one and two dimensions. Students learn about gravity and Newton's laws of motion before concluding the course with an examination of circular motion. Students apply mathematical concepts such as graphing and trigonometry in order to solve physics problems. Throughout the course, students apply their understanding of physics by playing roles like science museum curator and elementary teacher.
Semester B
Physics B continues the student's exploration of mechanics while also guiding them through some other important topics of physics. Students begin by exploring simple harmonic motion, wave properties, and optics. Students then learn the basics of thermodynamics and fluids. Afterwards, the students explore the principles of electricity and magnetism. Finally, students explore the area of physics known as Modern Physics, which includes topics such as the photoelectric effect, nuclear science, and relativity. This is a trig based course. It is assumed you know and can use trigonometry.
Course Requirements
Grade Leve - 11th – 12th Grade
Duration - 2 Semesters
Materials - None
Prerequisites - Algebra – Geometry

HISTORY

WORLD HISTORY - A & B
Semester A
Students explore key events and historical developments from hunter-gatherer societies to the Industrial Revolution. Beginning with the analysis of prehistoric people from the Paleolithic era to the Agricultural Revolution, the course follows the rise and fall of early empires including the Roman Empire. Topics include: The Crusades, feudalism, the plague, Asian empires and trade routes, effects of the Renaissance and Protestant Reformation, and important revolutions that shaped history.
Semester B
Students trace the developments of the last 250 years by examining the origins of modern Western imperialism and analyzing the cultural, economic, and political impacts on Africa and Asia. Topics include: the influence of the Industrial Revolution, the impact of imperialism and nationalism on World War I, how the Treaty of Versailles contributed to the rise of fascism in Europe and the start of World War II, 20th-century warfare, the Armenian Genocide, and the Holocaust.
Course Requirements
Grade Level - 9th - 12th Grade
Duration - 2 Semesters
Materials – None

WORLD GEOGRAPHY - A & B
Semester A
Students explore the five themes of geography, analyzes the earth's processes, and how the processes impact both physical and human geography. Both physical and political maps are studied to examine trends and impacts with a focus on the Americas, Central Asia, and Europe.
Semester B
Students continue the exploration of the five themes of geography with a focus on the Middle East, Africa, and Asia. Cultural beliefs and social and political systems are examined within the context of countries, regions, and global interactions.
Course Requirements
Grade Level - 9th - 12th Grade
Duration - 2 Semesters
Materials – None

AMERICAN HISTORY - A & B
Semester A
American History A explores European exploration and the impact Europeans had on the lives of those native to North America. Topics included: the development of the English colonies in North America, causes and effects of the American Revolution, the ratification of the Constitution, causes of the War of 1812, analysis of sectionalism as a common thread, westward expansion, Civil War, and Reconstruction, Indian Wars, immigration, and the Second Industrial Revolution.
Semester B
American History B traces pivotal events in American history and presidential administrations as the 21st century dawns. Topic included: The Gilded Age, Progressive Era, World War I, the Roaring Twenties, Great Depression, New Deal, World War II, the Cold War, and proxy conflicts like the Vietnam War and Korean War, technology innovations, global communications, and the rise of terrorism.
Course Requirements
Grade Level - 10th - 12th Grade
Duration - 2 Semesters
Materials – None

AMERICAN GOVERNMENT*
Students examine the history and philosophy of the United States government and the guiding principles of democracy. Topics include analysis of the United States Constitution, functions and duties of the three branches of government, the role of the Supreme Court, civic engagement in political process, the rights and responsibilities of citizens, government systems of the world, political parties, interest groups, and the media in shaping the government.
Course Requirements
Grade Level - 11th - 12th Grade
Duration - 1 Semester
Materials - None
Prerequisites - American History

ECONOMICS*
Students explore principles to make informed decisions about personal finance, develop a broader understanding of national and international economic decisions and policies. Topics include why economics impacts history, distribution of wealth, and quality of life for all members of society.
Course Requirements
Grade Level - 11th - 12th Grade
Duration - 1 Semester
Materials – None

HONORS HISTORY

HONORS WORLD HISTORY - A & B
Semester A
Students explore the key events and global historical developments from hunter gatherer societies to the Industrial Revolution. From the Paleolithic era and the Agricultural Revolution, students follow the rise and fall of early empires including Rome, and Asian empires. Topics included: exploration of the impact of the Renaissance, Protestant Reformation, Age of Exploration, and the American colonies, analysis of important revolutions in history, including the Scientific, American, and Industrial.
Semester B
In this semester, students examine revolutions in the world and the establishment of European colonies around the globe by tracing the effects of imperialism and nationalism, eventually resulting World War I and II and the Cold War. Topics included: analyzing modern-day issues including social media, globalization, and technological advances and threats associated with them.
Course Requirements
Grade Level - 9th - 12th Grade
Duration - 2 Semesters
Materials - None

HONORS AMERICAN HISTORY - A & B
Semester A
Honors American History A helps students learn the story of the settling of North America by Europeans in the 1600s. A prevailing theme of the course is that America accomplished tasks that no other country had undertaken before. America broke away from Europe, established its own country with a constitution that has given freedom to more people than any other country in the world, and settled a country by putting that Constitution into practice. The course ends with a study of America's emergence as a world power at the beginning of the 20th Century. Students will encounter primary and secondary source document investigations, biographies of key individuals, political cartoons, map studies, and period literature.
Semester B
Honors American History B begins in the 1920s Jazz Age and ends in the 21st Century. Students will examine economic factors that lead to the Great Depression and World War II. The West's involvement in the Cold War, as well as the fall of the Soviet Union, will be covered in detail. America's rise as a world power is featured. The final unit of the course includes a study of the environment, modern presidential foreign and domestic policies, and the Middle East.
Course Requirements
Grade Level - 10th - 12th Grade
Duration - 2 Semesters
Materials – None

HONORS AMERICAN GOVERNMENT*
Students examine early political ideas that led to the development of the United States government, and the various smaller governments that operate within the United States provide insights of local, state, and national levels of government. By examining how the United States interacts with the world regarding trade, immigration, and global conflicts, students discover how civic engagement influences the government.
Course Requirements
Grade Level - 11th - 12th Grade
Duration - 1 Semester
Materials - None
Prerequisites - American History

WORLD LANGUAGES

HS SPANISH 1 - A & B
Students explore how to discuss school subjects, professions, and daily routines, as well as illness and injury, shopping, and money through reading, writing, listening, and speaking. The course also explores cultures of some Spanish-speaking countries, such as Venezuela, Chile, Ecuador, Guatemala, and Cuba.
Course Requirements
Grade Level - 9th - 12th Grade
Duration - 2 Semesters
Materials - None

HS SPANISH 2 - A & B
Spanish 2 continues to build reading, writing, listening, and speaking skills in order to discuss transportation, extracurricular interests, professions, cuisine, clothing, health, and technology. Topics included: present, past, future, and conditional tenses, present subjunctive mood, explores cultures of some Spanish-speaking countries, such as the Dominican Republic, Equatorial Guinea, Honduras, Uruguay, and Panama.
Course Requirements
Grade Level - 9th - 12th Grade
Duration - 2 Semesters
Materials – None
Prerequisites - Spanish 1

HS SPANISH 3 - A & B
Spanish 3 builds reading and writing of informative, argumentative, and descriptive texts, listening, and speaking skills using the indicative subjunctive, and imperative moods. The course also explores significant historical events of some Spanish-speaking countries, as well as cultural products, practices, and philosophies. Students continue acquiring the Spanish language through reading poems and short stories by notable Spanish-language authors. The continuation of writing, listening, and speaking includes exploring behavioral norms in different Spanish-speaking cultures in order to discuss these topics in the indicative and subjunctive moods in a variety of tenses.
Course Requirements
Grade Level - 10th - 12th Grade
Duration - 2 Semesters
Materials - None
Prerequisites - Spanish 2 or equivalent

HS FRENCH 1 - A & B
French 1 focuses on developing listening skills by repeated exposure to the spoken language. Speaking skills are encouraged through recommended assignments using voice tools. Reading and writing skills, as well as language structures, are practiced through meaningful, real-life contexts. The use of technology enhances and reinforces authentic language development and fosters cultural understandings through exposure to native speakers and their daily routines.
Course Requirements
Grade Level - 8th - 12th Grade
Duration - 2 Semesters
Materials – None

HS FRENCH 2 - A & B
Semester A
Semester A focuses on the continuation and enhancement of language skills presented in French 1. Vocabulary and grammar structures are revisited and expanded to provide students an opportunity to move towards an intermediate comprehension level. Speaking and listening skills are enhanced through recommended real-life voice activities. Listening skills are honed through online dialogues. Reading and writing skills are developed through access to completion of meaningful activities, reading of culturally related articles of interest and responding to reading in the target language. The use of technology enhances and reinforces authentic language development and fosters cultural understandings through exposure to native speakers and their daily routines.
Semester B
Semester B continues the enhancement of language skills. Vocabulary and grammar structures are revisited and expanded as students explore other French-speaking areas. Speaking and listening skills are enhanced through recommended real-life voice activities. Listening skills are honed through online dialogues. Reading and writing skills are developed through access to completion of meaningful activities related to travel, to the Olympics, to natural disasters, and to the space program. Reading of culturally related articles of interest and responding to reading in the target language, along with the use of technology, reinforces authentic language development and fosters cultural understandings through exposure to native speakers and their daily routines.
Course Requirements
Grade Level - 9th - 12th Grade
Duration - 2 Semesters
Materials - Semester B Only | Joie De lire! Intermediate Reader Level 2. July 19, 2002 By Rinehart and Winston Holt | ISBN: 0030656273
Prerequisites - French 1 or equivalent

HS FRENCH 3 - A & B

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

Course Requirements

Grade Level - 10th - 12th Grade
Duration - 2 Semesters
Materials - None
Prerequisites - French 2 or equivalent

HS GERMAN 1 - A & B

Semester A

The German 1 course is an introduction to basic comprehension and communication in German. It coordinates the study of language with culture through the use of video, audio and media production. This course assumes no prior knowledge of the German language. It introduces the fundamentals of conversational and grammatical patterns of the German language with presentations to present the material. Students who complete the course successfully will begin to develop a functional competency in the four primary language areas: speaking, reading, listening and writing, while establishing a solid grammatical base and exploration into German culture.

Semester B

The second semester course will expand on the knowledge gained from German 1A and further develop their skills in pronunciation, grammar skills, grammar structures and vocabulary. Oral practice (via Voice Tools), homework assignments, games, songs, watching videos, quizzes, tests, projects and other activities such as writing wikis and journal entries, will be emphasized to accomplish this goal. The different cultures of the German-speaking world are emphasized through readings, videos and other activities. Taking the time to learn another language is a mind-expanding activity that can open up a world of opportunities and advantages.

Course Requirements

Grade Level - 8th - 12th Grade
Duration - 2 Semesters
Materials – None

HS GERMAN 2 - A & B

Semester A

In this course, students build on grammar and language skills that they acquired during their German 1 courses. While reviewing basic grammar skills, (present and past tenses), students learn and study stem-changing verb conjugation and explore cultural themes regarding current events, famous German people, music and famous festivals.

Semester B

In the second semester course, students increase their proficiency in being able to communicate by forming more complex German sentences in a variety of tenses using all four cases (Nominative, Accusative, Dative and Genitive). The variety of topics increases also, from exploring different careers to discussing relationships. Cultural themes are entwined throughout this course related to going shopping, to going to the zoo and travel throughout the German-speaking world.

Course Requirements

Grade Level - 9th - 12th Grade
Duration - 2 Semesters
Materials - None
Prerequisites- German 1 or equivalent

AP LANGUAGE ARTS

AP ENGLISH LANGUAGE & COMPOSITION - A & B
This course provides high school students with college-level instruction in analyzing and writing various texts. The course covers topics in language and rhetoric as well as expository and persuasive writing. Students become skilled readers of prose written in various periods, disciplines, and rhetorical contexts. This course fulfills one required English credit for high school graduation.
Course Requirements
*Additional costs may apply
Grade Level - 11th - 12th Grade
Duration - 2 Semesters
*Reading list detailed in Appendix B.
Prerequisites - Honors English 11 or Equivalent

AP MATH

AP CALCULUS AB - A & B
Study limits, continuity, differentiation, integration, differential equations, and the applications of derivatives and integrals. This course fulfills one required math credit for high school graduation.
Course Requirements
*Additional costs may apply
Grade Level - 11th - 12th Grade
Duration - 2 Semesters
Materials - Study Forge; calculator
Prerequisites – Pre-Calculus

AP CALCULUS BC - A & B
Comparable to college and university calculus, this course will help prepare you for the Calculus BC Advanced Placement exam. Study limits, continuity, differentiation, integration, differential equations, and the applications of derivatives and integrals, parametric and polar equations, and infinite sequences and series. This course fulfills one required math credit for high school graduation.
Course Requirements
*Additional costs may apply
Grade Level - 11th - 12th Grade
Duration - 2 Semesters
Materials – Study Forge; calculator
Prerequisites - Pre-calculus

AP SCIENCE

AP BIOLOGY - A & B
This course provides a foundation for developing an understanding of biological concepts through scientific inquiry, investigations, interactive experiences, higher-order thinking, real-world applications, writing analytical essays, statistical analysis, interpreting and collecting data. This course fulfills one required science credit for high school graduation.
Course Requirements
*Additional costs may apply
Grade Level - 11th - 12th Grade
Duration - 2 Semesters
Materials - Campbell Biology in Focus, 3rd Edition AP Edition for Advanced Placement
Authors: Lisa Urry, Michael Cain, Steven Wasserman, Peter Minorsky; ISBN-13: 9780135214763
Please note this text will be available at no charge as an eTextbook; your teacher will provide access during the first 48 hours of the course.
Prerequisites - Algebra 1 –Geometry

AP CHEMISTRY - A & B
This course is taught at the college level and is designed to prepare students to take the Advanced Placement Examination. College-level textbooks are used. Topics include an introduction to chemistry as the study of change, gases, thermochemistry, quantum theory, chemical bonding, crystals, phase changes, solutions, chemical kinetics, chemical equilibrium, acids and bases, entropy, electrochemistry, nuclear chemistry, metallurgy, alkali and alkaline metals, non-metallic metals, transition metals, organic chemistry, and synthetic and natural organic polymers.
Course Requirements
*Additional costs may apply
Grade Level - 11th - 12th Grade
Duration - 2 Semesters
Materials - AP Chemistry, Raymond Chang and Jason Overby. 14th Edition, ©2022 (Digital); ISBN-13: 9781266389139, ISBN-10: 126638913X
Princeton Review AP Chemistry Premium Prep, 2024; ISBN-10: 0593516761, ISBN-13: 978-0593516768
Lab Materials - Please note that iCademy has access to virtual labs, so the physical labs are optional: Advanced Microchem Kit (AP Chemistry Lab Kit by Quality Science Labs)
Prerequisites - Chemistry, Algebra & Geometry

AP PHYSICS - A & B

Semester A

Students explore principles of Newtonian mechanics (including rotational motion); work, energy, and power; mechanical waves and sound; and introductory, simple circuits. The course is based on six Big Ideas, which encompass core scientific principles, theories, and processes that cut across traditional boundaries and provide a broad way of thinking about the physical world.

Semester B

Students establish lines of evidence and use them to develop and refine testable explanations and predictions of natural phenomena. Focusing on these disciplinary practices enables teachers to use the principles of scientific inquiry to promote a more engaging and rigorous experience for AP Physics students.

Course Requirements

*Additional costs may apply
Grade Level – 11th – 12th Grade
Duration – 2 Semesters
Materials – Graphing Calculator
Text: College Physics - Urone, P. and Hinrichs, R. College Physics. Houston; OpenStax College Physics.Digital: ISBN-10:1947172018, ISBN-13:9781947172012;
Princeton Review AP Physics 1 Prep, 2022, ISBN-10:0525570705, ISBN-13:978-0525570707

AP HISTORY

AP GOVERNMENT & POLITICS*

Students investigate key political concepts, ideas, institutions, policies, interactions, roles, and behaviors that characterize the constitutional system and political culture of the United States. Students will study the structure of the Constitution throughout the course, as well as its implications for the functioning of government today. Other foundational documents, landmark Supreme Court cases, and opportunities for research and civic action are key elements in this rich course that prepares students to be informed and active participants in U.S. society.

Course Requirements

*Additional costs may apply
Grade Level - 11th - 12th Grade
Duration – 1 Semester
Materials - Ginsberg, Benjamin, Theodore J. Lowi, Margaret Weir, Caroline J. Tolbert, and Andrea L. Campbell. We the People: An Introduction to American Politics. 12th edition. New York, NY: W.W. Norton, 2018.
Please note this text will be available at no charge as an eTextbook; your teacher will provide access during the first 48 hours of the course.
Prerequisites - American History

AP U.S. HISTORY - A & B

Within AP U.S. History, students will develop and use historical thinking skills (chronological reasoning, comparison and contextualization, crafting historical arguments from historical evidence, and historical interpretation and synthesis) to examine the history of the United States from 1491 to the present. Students will learn through active participation as they analyze sources and collaborate to gain a conceptual understanding of U.S. history. The AP U.S. History course is structured around nine time periods outlined within the College Board Advanced Placement United States History Framework. Each time period is divided into key concepts meant to contextualize history and show continuity and well as change over time. The intention is for students to explore history, establishing economic, political, and social patterns.

Course Requirements

*Additional costs may apply
Grade Level - 11th - 12th Grade
Duration - 2 Semesters
Materials - Give Me Liberty- AP 6th Ed.-Eric Foner ISBN: 978-0-393-44123-9
Prerequisites: U.S. History

AP WORLD HISTORY - A & B

Semester A

The first semester of AP World History Modern delves into the history of mankind. Looking back to the prehistoric times, students will develop the connections between the early river valleys, the beginnings of civilizations, and governments. Through this semester, students will be introduced to concepts that will be placed on the AP examination and will also be given multiple opportunities to practice skills necessary for the AP exam. This specific time will start from the First Agricultural Revolution to the Age of Exploration.

Semester B

The second semester of AP World History Modern is a continuation of semester one, starting with how Europe evolved from the colonies being brought into the New World. This course will continue to make connections between nations and look at the big picture concepts of the world until present day. This semester will also spend one time preparing specifically for the AP exam. Through review materials and practicing skills needed for the AP exam, students will work on being prepared for the exam.

Course Requirements
*Additional costs may apply
Grade Level - 10th - 12th Grade
Duration - 2 Semesters
Materials - Bentley, Traditions & Encounters: A Global Perspective on the Past, 7th Edition, ©2021 (Digital); ISBN-13: 9781264151219, ISBN-10: 1264151217
Princeton Review AP World History: Modern Premium Prep, 2024; ISBN-10: 0593517350, ISBN-13: 978-0593517352
Prerequisites - World History

AP WORLD LANGUAGES

AP SPANISH LANGUAGE & CULTURE - A & B
This course is an advanced language course in which students acquire proficiencies that expand their cognitive, analytical and communicative skills. The AP Spanish Language and Culture course prepares students for the College Board's AP Spanish Language and Culture exam. It uses as its foundation the three modes of communication (Interpersonal, Interpretive and Presentational) as defined in the Standards for Foreign Language Learning in the 21st Century.The course is designed as an immersion experience and is conducted almost exclusively in Spanish. In addition, all student work, practices, projects, participation, and assessments are in Spanish.
Course Requirements
*Additional costs may apply
Grade Level - 11th - 12th Grade
Duration - 2 Semesters
Materials - Abriendo paso: Temas y lecturas 2014 Realize; ISBN: 9780328954445 (1 year)
Abriendo paso: Gramatica 2014 Realize
ISBN: 9780328954346 (1 year)
Call Savvas Customer Service to Purchase these two eTextbooks at 001-800-848-9500. Press #5, then #3, then #3. Specify to agent that it is for an online private school.
ISBN-13: 978-0593450888, ISBN-10: 0593450884
Prerequisites – Spanish 3

ELECTIVES

ART HISTORY MODERN*
Students explore art of the late 1700s to modernity from Western movements in artworks and architecture to China, Japan, Africa, Oceania, Southeast Asia, and India. Given the subject matter, the course is extensively visual.
Course Requirements
Grade Level - 9th – 12th Grade
Duration - 1 Semester
Materials – None

ART HISTORY ORIGINS*
Students explore the art of the prehistoric, ancient, medieval, Renaissance and Rococo periods to understand how to read and interpret art. Given the subject matter, the course is extensively visual. Please also be aware that many art movements covered in this course celebrate the human form.
Course Requirements
Grade Level - 9th - 12th Grade
Duration - 1 Semester
Materials – None

ASTRONOMY*
The universe is truly the last unknown frontier and offers more questions than answers. Why do stars twinkle? Is it possible to fall into a black hole? Will the sun ever stop shining? Since humans first glimpsed into the vastness of the night sky, we have been fascinated with the celestial world of planets and stars. By using online tools, students will examine such topics as the solar system, space exploration, and the Milky Way and other galaxies. The course also explores the history and evolution of astronomy including those basic scientific laws of motion and gravity that have guided astronomers as they made their incredible discoveries of the universe.
Course Requirements
Grade Level - 9th - 12th Grade
Duration - 1 Semester
Materials – None

CREATIVE WRITING*
Literature is an important form of art that allows us to give voice to our emotions, create imaginary worlds, express ideas, and escape the confines of reality. Explore the writing process and find inspiration to build a story of your own, and learn literary techniques to create hybrid forms of poetry and prose. Let's turn your creative thoughts and ideas into pieces of creative writing.
Course Requirements
Grade Level - 9th - 12th Grade
Duration - 1 Semester
Materials – None

EARLY CHILDHOOD - A & B
Semester A
Are you curious to see what it takes to educate and nurture early learners? Use your curiosity to explore the fundamentals of childcare, like nutrition and safety, but also the complex relationships caregivers have with parents and their children. Examine the various life stages of child development and the best educational practices to enrich their minds while thinking about a possible future as a childcare provider!
Semester B
Discover the joys of providing exceptional childcare and helping to develop future generations. Learn the importance of play and use it to build engaging educational activities that build literacy and math skills through each stage of childhood and special need. Use this knowledge to develop your professional skills well suited to a career in childcare.
Course Requirements
Grade Level - 9th - 12th Grade
Duration - 2 Semesters
Materials – None

FINANCIAL MATH*
Financial Math investigates how to solve real-life problems, analyze current financial issues of taxes, loans, car leases, mortgages, and insurance. Mathematical processes are used to study patterns and analyze data, algebraic formulas, graphs, and amortization modeling.
Course Requirements
Grade Level - 9th - 12th Grade
Duration - 1 Semester
Materials – None

LIFE SKILLS*

What do you want out of life? How do you achieve your dreams for the future? These can be difficult questions to answer, but they don't have to be with the right tools. Learn more about yourself and prepare for the future through goal setting, decision making, surviving college and career, and how to become a valuable contributing member of society. It's your life; make it count!

Course Requirements

Grade Level - 9th - 12th Grade
Duration - 1 Semester
Materials – None

MARINE SCIENCE*

Have you ever wondered about the secrets of the deep and the creatures below the ocean's surface? It is truly a new frontier of discovery. Begin to better understand the aquatic cycles, structures, and processes that generate and sustain life in the sea. You'll use scientific inquiry, research, and problem-solving to conduct various scientific procedures and become a more capable marine scientist.

Course Requirements

Grade Level - 9th - 12th Grade
Duration - 1 Semester
Materials – None

MUSIC APPRECIATION*

Students will gain a thorough understanding of music by studying the elements of music, musical instruments, and music history, as well as music advocacy. Students will be introduced to the orchestra and composers from around the world. They will be required to be a composer, performer, instrument inventor, and advocate.

Course Requirements

Grade Level - 9th - 12th Grade
Duration - 1 Semester
Materials - None

PALEONTOLOGY*

From Godzilla to Jurassic Park, dinosaurs continue to captivate us. In this course, students will learn about the fascinating creatures both large and small that roamed the earth before modern man. Watch interesting videos from experts at The Royal Tyrrell Museum, a leading paleontology research facility, and discover how the field of paleontology continues to provide amazing insight into early life on earth.

Course Requirements

Grade Level - 9th - 12th Grade
Duration - 1 Semester
Materials – None

PSYCHOLOGY - A & B

Semester A

This semester explores human behavior, interaction and the progressive development of individuals. Topics include major theories and orientations of psychology, psychological methodology, human growth and development, individual variation and personality, psychobiology, as well as sensation and perception.

Semester B

This semester explores human social interactions, psychological therapies, and careers in the field. Topics include psychological perspectives, positive relationships, social and cultural
diversity, language structures, memory and cognition, psychological testing, statistical research, stress/coping strategies, and mental health.

Course Requirements

Grade Level - 9th - 12th Grade
Duration - 2 Semesters
Materials – None

SOCIOLOGY*

Human beings are complex creatures, and when we interact and begin to form relationships and societies, things become even more complicated. Are we more likely to act differently in a group than we will when we're alone? How do we learn how to be "human"? Examine answers to these questions and many more as you explore culture, group behavior, and societal institutions and how they affect human behavior.

Course Requirements

Grade Level - 9th - 12th Grade
Duration - 1 Semester
Materials - None

THEATER, CINEMA & FILM PRODUCTION*

Lights! Camera! Action! Theater and cinema are both forms of art that tell a story. Let's explore the enchanting world of live theater and its fascinating relationship to the silver screen. Explore the different genres of both and how to develop the script for stage and film. Then dive into how to bring the script to life with acting and directing. If you have a passion for the art of film and stage, let's bring your creativity to life!

Course Requirements

Grade Level - 9th - 12th Grade
Duration - 1 Semester
Materials - Access to Singing in the Rain, Wizard of Oz, Casablanca

CAREER ELECTIVES

AGRISCIENCE*

How can we make our food more nutritious? Can plants really communicate with each other? These are just two of the questions tackled in Introduction to Agriscience. From studying the secrets in corn roots to examining how to increase our food supply, this course examines how agriscientists are at the forefront of improving agriculture, food production, and the conservation of natural resources. Students will learn about the innovative ways that science and technology are put to beneficial use in the field of agriculture. They will also learn more about some of the controversies that surround agricultural practices as nations strive to provide their people with a more abundant and healthy food supply.

Course Requirements

Grade Level - 9th - 12th Grade
Duration - 1 Semester
Materials – None

BUSINESS LAW*

Whether you plan on starting your own business or being in charge of one, it is crucial you understand how to keep the company compliant. Explore what it means to run an ethical business, how to keep intellectual property, technology, and e-commerce safe and protected, understand insurance and taxes, and how to have a healthy workplace environment.

Course Requirements

Grade Level - 9th - 12th Grade
Duration - 1 Semester
Materials – None

COMPUTER BASICS HS*

In this course students will learn how to use productivity and collaboration tools, such as G Suite by Google Cloud to create word processing documents, spreadsheets, surveys and forms such as personal budgets and invitations.

Course Requirements

Grade Level - 9th - 12th Grade
Duration - 1 Semester
Materials – None

CRIMINOLOGY*

Why do certain people commit horrible acts? Can we ever begin to understand their reasoning and motivation? Perhaps. The mental state of a criminal can be affected by many different aspects of life: psychological, biological, sociological, all of which have different perspectives and influences. Investigate not only how these variables affect the criminal mind but also how crimes are investigated and handled in the criminal justice system.

Course Requirements

Grade Level - 9th - 12th Grade
Duration - 1 Semester
Materials - None

CULINARY ARTS - A & B

Semester A

Thinking of a career in the foodservice industry or looking to develop your culinary skills? Explore basic cooking and knife skills while preparing you for entry into the culinary world. Discover the history of food culture, food service, and global cuisines while learning about food science principles and preservation. Prepare for your future by building the professional, communication, leadership, and teamwork skills that are crucial to a career in the culinary arts.

Semester B

Did you know that baking is considered a science? Discover how to elevate your culinary skills through the creation of stocks, soups, sauces, and learn baking techniques. Examine sustainable food practices and the benefits of nutrition while maintaining taste, plating, and presentation to truly wow your guests. Explore careers in the culinary arts for ways to channel your newfound passion!

Course Requirements

Grade Level - 9th - 12th Grade
Duration - 2 Semesters
Materials – cooking vessels and materials, plus food

DIGITAL MEDIA FUNDAMENTALS - A & B

Discover your talent for building digital media applications using text, graphics, animations, sounds, videos, and more! Learn about the elements that make impressive media, such as typography, color theory, design, and manipulation. Explore careers to apply your digital media skills and find your place in this fast-paced and exciting field!

Course Requirements

Grade Level - 9th - 12th Grade
Duration – 2 Semesters
Materials - Vecteezy account, Powtoon account, Canva account GIMP or Adobe Photoshop; GarageBand (Mac) or Audacity (any platform), An account with Wix.com, An account with Canva (or other image creation software)

DIGITAL MEDIA WEB DESIGN II*

Did you know that you are consuming digital media every time you open an app or use your computer or tablet? Digital media may be a webpage, video, image, podcast, form, or more. Explore how you can develop webpages that embed different media and interactivity for excellent user experience through programming languages such as HTML and CSS. Examine trends and opportunities, education requirements, student organizations, and industry certification options. It's your turn to start designing websites and experiences for digital media consumers.

Course Requirements

Grade Level - 9th - 12th Grade
Duration – 1 Semester
Prerequisites - Digital Media Fundamentals

DIGITAL PHOTOGRAPHY - A & B

Semester A

Have you wondered how professional photographers manage to capture that perfect image? Gain a better understanding of photography by exploring camera functions and the elements of composition while putting theory into practice by taking your own spectacular shots! Learn how to display your work for exhibitions and develop skills important for a career as a photographer.

Semester B

Let's further develop your photography skills by learning more professional tips, tricks, and techniques to elevate your images. Explore various photographic styles, themes, genres, and artistic approaches. Learn more about photojournalism and how to bring your photos to life, and using this knowledge, build a portfolio of your work to pursue a career in this field!

Course Requirements

Grade Level - 9th - 12th Grade
Duration - 2 Semesters
Materials - Digital or Smartphone camera

ENTREPRENEURSHIP*

Starting a business is more than just having a good idea. Successful entrepreneurs know how to use and apply fundamental business concepts to turn their ideas into thriving businesses. Explore topics such as identifying the best business structure, business functions and operations, finance, business laws, regulations, and more! If you have ever dreamed of making a business idea a reality, take the time to establish a solid foundation of business skills to make your business dreams come true!

Course Requirements

Grade Level - 9th - 12th Grade
Duration – 1 Semester
Materials - MS Office

FORENSICS*

Fingerprints. Blood spatter. DNA analysis. Law enforcement is increasingly making use of the techniques and knowledge from the sciences to better understand the crimes that are committed and to catch those individuals responsible for the crimes. Explore techniques and practices used by forensic scientists during a crime scene investigation (CSI). Starting with how clues and data are recorded and preserved, you'll follow evidence trails until the CSI goes to trial in the criminal justice system, examining how various elements of the crime scene are analyzed and processed.

Course Requirements

Grade Level - 9th - 12th Grade
Duration - 1 Semester
Materials – None

HEALTH SCIENCE: NURSING*

The demand for nurses has never been higher! Learn what it takes to become a nurse, pursue a career, and understand the practice of nursing and the healthcare system. With a strong focus on patient care, you'll explore safety, communication and ethics, relationship building, and how to develop wellness strategies for your patients. From emergency to rehabilitative care, to advances and challenges in the healthcare industry, discover how you can launch a fulfilling career providing care to others.

Course Requirements

Grade Level - 10th - 12th Grade
Duration - 1 Semester
Materials – First Aid Kit

JOURNALISM*

Does your curiosity lead you to the heart of the matter? Channel this curiosity into developing strong writing, critical thinking, and research skills to perform inter- views and write influential pieces, such as articles and blog posts. Learn about the evolution of journalism and its ethics, bias, and career directions to forge your path in this field.

Course Requirements

Grade Level - 9th - 12th Grade
Duration - 1 Semester
Materials – None

LAW & ORDER*
Imagine if there were no laws and people could do anything they wanted. Every society needs some form of regulation to ensure peace in our daily lives and in the broader areas of business, family disputes, traffic violations, and the protection of children. Explore the importance of laws and how their application affects us as individuals and communities. Through understanding the court system and how laws are actually enacted, you'll learn to appreciate the larger legal process and how it safeguards us all.
Course Requirements
Grade Level - 9th - 12th Grade
Duration - 1 Semester
Materials – None

NUTRITION AND WELLNESS*
Keeping our physical body healthy and happy is just one of the many challenges we face, and yet, many of us don't know how to achieve it best. In this course, you'll explore positive decisions around diet and food preparation to pursue a healthy, informed lifestyle. Making sure you know how to locate, buy, and prepare fresh, delicious food will make you and your body feel amazing.
Course Requirements
Grade Level - 9th - 12th Grade
Duration - 1 Semester
Materials – None

SPORTS AND ENTERTAINMENT MARKETING*
The world of sports and entertainment is never boring. This field offers careers that combine entertainment with traditional marketing, but with a whole lot more glamour. Explore basic marketing principles while delving deeper into the sports and entertainment industry. Learn how professional athletes, sports teams, and famous entertainers are marketed as commodities and how the savvy people who handle these deals can become very successful.
Course Requirements
Grade Level - 9th - 12th Grade
Duration - 1 Semester
Materials - None

VETERINARY SCIENCE*
Whether you want to step into the wild side of veterinary medicine or just take care of loveable dogs and cats, explore how to care for domestic, farm, and wild animals, diagnose their common diseases and ailments, and learn about different veterinary treatments. If you have always been drawn to the world of our furry, scaly, and feathered friends, this is the course for you!
Course Requirements
Grade Level - 9th - 12th Grade
Duration - 1 Semester
Materials – None

HEALTH & P.E.

HEALTH - A & B
Semester A
In this course, students acquire the knowledge and skills they need to lead a healthy life. Semester A focuses on the impact of personal decisions on the student's own health. Students learn how to find, evaluate, and use reliable information related to a variety of health topics. They also study the basic science behind nutrition, exercise, stress, and psychology, and examine how these factors affect a person's overall health. Each lesson in the course guides students in applying what they have learned in the lesson to their own lives and choices—and gives them a chance to discuss the topic with peers and instructors.
Semester B
Semester B focuses on the developmental aspects of being human and healthy. Students learn about some of the more dramatic changes that the human body experiences from birth to death. They explore topics related to aging and human reproduction and identify ways to remain healthy and safe throughout life's major events and challenges. As in Semester A, this part of the course emphasizes what students can do to improve or maintain their own health and encourages them to be a positive influence on family and friends. Each lesson helps identify ways that students might use what they have learned in the lesson in their own lives. As in semester A, students discuss lesson topics with peers and/or an instructor.
Course Requirements
Grade Level - 9th - 12th Grade
Duration - 2 Semesters
Materials - None

PHYSICAL EDUCATION - A & B

Physical Education encompasses learning how to live and maintain a healthy lifestyle. This course covers physical fitness, why it is important, how to have a healthy attitude, and how to stick with a healthy game plan. In this ever-changing world, physical fitness becomes more important and more difficult to find the time for. This course allows the student to discover how to make physical fitness not only a part of their daily life, but also see that it is attainable. This course leads the student to discover healthy behaviors and sets the tone for physical fitness as well as healthy exercise. PE will examine the emotional, physical, and scientific factors that influence physical performance. This course is designed for anyone, ranging from the beginner to advanced abilities.

Course Requirements

Grade Level - 9th - 12th Grade
Duration - 2 Semesters
Materials -None

COURSE LIST HIGH SCHOOL 9-12

ENGLISH
ENGLISH 9 - A & B
ENGLISH 10 - A & B
ENGLISH 11 - A & B
ENGLISH 12 - A & B
HONORS ENGLISH 9- A & B
HONORS ENGLISH 10- A & B
HONORS ENGLISH 11- A & B
HONORS ENGLISH 12- A & B

MATHEMATICS
ALGEBRA 1 - A & B
ALGEBRA 2 - A & B
GEOMETRY - A & B
INTEGRATED MATH 1 - A & B
INTEGRATED MATH 2 - A & B
PRE - CALCULUS - A & B
HONORS ALGEBRA 1 - A & B
HONORS ALGEBRA 2 - A & B
HONORS GEOMETRY - A & B

SCIENCE
ANATOMY AND PHYSIOLOGY - A & B
BIOLOGY - A & B
CHEMISTRY - A & B
EARTH SCIENCE - A & B
ENVIRONMENTAL SCIENCE A & B
PHYSICAL SCIENCE - A & B
PHYSICS - A & B
HONORS BIOLOGY - A & B
HONORS CHEMISTRY - A & B
HONORS PHYSICS - A & B

SOCIAL STUDIES
AMERICAN GOVERNMENT*
AMERICAN HISTORY - A & B
ECONOMICS*
WORLD GEOGRAPHY - A & B
WORLD HISTORY - A & B
HONORS AMERICAN GOVERNMENT*
HONORS AMERICAN HISTORY - A & B
HONORS WORLD HISTORY - A & B

WORLD LANGUAGE
HS FRENCH 1 - A & B
HS FRENCH 2 - A & B
HS FRENCH 3 - A & B
HS GERMAN 1 - A & B
HS GERMAN 2 - A & B
HS - SPANISH 1 - A & B
HS - SPANISH 2- A & B
HS - SPANISH 3 - A & B

AP ENGLISH
AP ENGLISH LANGUAGE & COMPOSITION - A & B

AP MATHEMATICS
AP CALCULUS AB - A & B
AP CALCULUS BC - A & B

AP SCIENCE
AP BIOLOGY - A & B
AP CHEMISTRY - A & B
AP PHYSICS - A & B

AP HISTORY
AP GOVERNMENT & POLITICS*
AP U.S. HISTORY - A & B
AP WORLD HISTORY - A & B

AP WORLD LANGUAGES
AP SPANISH LANGUAGE & CULTURE

ELECTIVES
ART HISTORY MODERN*
ART HISTORY ORIGINS*
ASTRONOMY*
CREATIVE WRITING*
EARLY CHILDHOOD - A & B
FINANCIAL MATH*
LIFE SKILLS*
MARINE SCIENCE*
MUSIC APPRECIATION*
PALEONTOLOGY*
PSYCHOLOGY - A & B
SOCIOLOGY*
THEATER, CINEMA & FILM PRODUCTION*

CAREER ELECTIVES
AGRISCIENCE*
BUSINESS LAW*
COMPUTER BASICS HS*
CRIMINOLOGY*
CULINARY ARTS - A & B
DIGITAL MEDIA FUNDAMENTALS - A & B
DIGITAL MEDIA WEB DESIGN II*
DIGITAL PHOTOGRAPHY - A & B
ENTREPRENEURSHIP*
FORENSICS*
HEALTH SCIENCE: NURSING *
JOURNALISM*
LAW AND ORDER *
NUTRITION AND WELLNESS *
SPORTS AND ENTERTAINMENT MARKETING *
VETERINARY SCIENCE *

HEALTH & P.E.
HS HEALTH - A & B
PHYSICAL EDUCATION - A & B

KHDA COURSES (UAE STUDENTS ONLY)
MORAL, SOCIAL & CULTURAL STUDIES
NON-NATIVE/ NATIVE ISLAMIC STUDIES
NON-NATIVE/ NATIVE ARABIC

NOTE ABOUT COURSE SELECTION AND AP COURSES:
*All courses with an “A&B” in the title are two semester courses. Courses with an asterisk (*) are one semester courses. Please check the pre-requisites prior to selecting courses and electives.

APPENDIX A | MATERIALS LIST

The list below has been provided for your information; many items will be classed as general household items, It is not necessary to purchase all items at once. Materials can be bought as and when required based on grade and subject.

MS BASIC DRAWING

1 drawing pencil, 2B
1 round watercolor hair brush #10
1 bottle India Ink, black
1 Pilot Varsity Pen, self-contained black ink
2 conté crayons: white, black
1 Art gum eraser
1 white, wax Crayola crayon
40 sheets white drawing paper, 9×12
5 sheets construction paper, 9×12, black
15 sheets grey construction paper, 9×12
Gray charcoal paper
14 large envelopes, 10 x 13
2 sheets white watercolor paper (rough, heavy, stiff)
2 sheets rice paper 9 1/2 x12 (soft, translucent)
25 sheets newsprint, 9×12
1 bottle white glue (obtain locally)

APPENDIX B | AP EXTERNAL MATERIALS

AP ENGLISH LANGUAGE & COMPOSITION
SEM A - (one of the following texts)
Zen in the Art of Writing by Ray Bradbury
On Writing Well by William Zinsser

SEM B - See the lesson titled The Memoir for an overview of text choices and choose one of the following:
- **Narrative of the Life of Frederick Douglass by Frederick Douglass
- *A Work in Progress: A Memoir by Connor Franta
- The Reason I Jump: The Inner Voice of a Thirteen-Year-Old Boy with Autism by Naoki Higashida
- *The Color of Water: A Black Man's Tribute to His White Mother by James McBride
- *The Glass Castle: A Memoir by Jeannette Walls
- *I am Malala: The Girl Who Stood Up for Education and Was Shot by the Taliban by Malala Yousafza
- *I Know Why the Caged Bird Sings by Maya Angelou
- Dust Tracks on a Road by Zora Neale Hurston
- ***Incidents in the Life of a Slave Girl by Harriet Jacobs
- **The Story of My Life by Helen Keller

See the Checklist lesson for an overview of text choices and choose one of the following:
- Pilgrim at Tinker Creek by Annie Dillard
- *Nickel and Dimed: On (Not) Getting By in America by Barbara Ehrenreich
- Mountains Beyond Mountains: The Quest of Dr. Paul Farmer, A Man Who Would Cure the World by Tracy Kidder
- *The Devil in the White City: Murder, Magic, and Madness at the Fair that Changed America by Erik Larson
- **Up from Slavery: An Autobiography by Booker T. Washington
- Into Thin Air by Jon Krakauer
- The Immortal Life of Henrietta Lacks by Rebecca Skloot
- Warmth of Other Suns by Isabell Wilkerson
- Bury My Heart At Wounded Knee by Dee Brown
- The Boys in the Boat by Daniel James Brown

**All works have rhetorical merit for the AP English student; texts marked with asterisks deal with mature subject matter or contain adult language or situations. If this is a concern for you or your family, please choose a different text from the list.*
***This text can be read online*
****Mature subject matter & available online*

AP BIOLOGY A & B
Campbell Biology in Focus, 3rd Edition AP Edition for AP Authors: Lisa Urry, Michael Cain, Steven Wasserman, Peter Minorsky, ISBN-13: 9780135214763
Please note this text will be available at no charge as an eTextbook; your teacher will provide access during the first 48 hours of the course.

AP PHYSICS - A & B
Text: College Physics - Urone, P. and Hinrichs, R. College Physics. Houston.
OpenStax College Physics - Digital:
ISBN-10:1947172018, ISBN-13:9781947172012
Princeton Review AP Physics 1 Prep, 2022 -
ISBN-10:0525570705, ISBN-13:978-0525570707

AP U.S. HISTORY A & B
Give Me Liberty- AP 6th Ed.-Eric Foner
ISBN: 978-0-393-44123-9
Please note this text will be available at no charge as an eTextbook; your teacher will provide access during the first 48 hours of the course.

AP SPANISH LANGUAGE AND CULTURE A & B
Abriendo paso: Temas y lecturas 2014 Realize
ISBN: 9780328954445 (1 year)
Abriendo paso: Gramatica 2014 Realize
ISBN: 9780328954346 (1 year)
Call Savvas Customer Service to Purchase these two eTextbooks at 001-800-848-9500. Press #5, then #3, then #3. Specify to agent that it is for an online private school.

AP CHEMISTRY A & B
AP Chemistry, Raymond Chang and Jason Overby. 14th Edition, ©2022 (Digital);
ISBN-13: 9781266389139; ISBN-10: 126638913X
Princeton Review AP Chemistry Premium Prep, 2024;
ISBN-10: 0593516761; ISBN-13: 978-0593516768

AP GOVERNMENT & POLITICS*
Ginsberg, Benjamin, Theodore J. Lowi, Margaret Weir, Caroline J. Tolbert, and Andrea L. Campbell. We the People: An Introduction to American Politics. 12th edition. New York, NY: W.W. Norton, 2018.
Please note this text will be available at no charge as an eTextbook; your teacher will provide access during the first 48 hours of the course.

AP WORLD HISTORY A & B
Bentley, Traditions & Encounters: A Global Perspective on the Past, 7th Edition, ©2021 (Digital);
ISBN-13: 9781264151219; ISBN-10: 1264151217
Princeton Review AP World History: Modern Premium Prep, 2024;
ISBN-10: 0593517350; ISBN-13: 978-0593517352

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17 YEARS