iCADEMY
MIDDLE EAST

# COURSE CATALOG

## 2026-2027



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# 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 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 They 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 multiplying fractions by fractions and dividing 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**
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**
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 - A***
The Kindergarten Arts and Crafts 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 on this course 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 - A***
The Arts and Crafts 1 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 work to 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 - A***
Arts and Crafts 2 A encourages young learners to explore their creativity while developing fine motor skills and an understanding of basic art concepts. Through engaging projects focused on lines, shapes, and color, students will learn to identify and use different types of lines, recognize and draw common shapes, and apply these elements to imaginative artworks. Activities include creating name art with lines, drawing animals and houses using simple shapes, and experimenting with watercolor techniques. Students will also be introduced to abstract art and the use of primary colors, all while building confidence, listening skills, and artistic expression in a fun, hands-on environment.
**Course Requirements:**
Grade Level – 2nd Grade
Duration – 1 Semester
Materials – None

**ART LEVEL 3***
Art Level 3 builds on foundational skills by introducing students to more advanced concepts in color theory, watercolor techniques, and design. Students will explore primary, secondary, and complementary colors through hands-on activities, including creating their own color wheels and expressive artwork. They will practice watercolor methods such as wet-on-wet painting and apply these skills to complete projects like painting trees and experimenting with lines and shapes. Lessons also encourage teamwork, creativity, and personal expression through mirror image drawings and guided art journaling. Throughout the course, students deepen their understanding of how colors, lines, and shapes can be used intentionally to create meaning and visual interest in their artwork.
**Course Requirements:**
Grade Level – 3rd Grade
Duration – 1 Semester
Materials – None

**INTERMEDIATE ART DESIGN 1***
Intermediate Art Design 1 introduces students to the fundamentals of visual art through engaging, hands-on experiences in digital media. Students will explore basic elements such as line, shape, color, and texture while developing essential skills in observation, composition, and creative expression. Through guided projects and interactive lessons, they will learn to follow directions, use their imagination, and begin building a personal artistic style. The course also introduces art vocabulary and historical context to help students connect their creative work to broader artistic traditions.
**Course Requirements:**
Grade Level – 4th – 5th Grade
Duration – 1 Semester
Materials – None

**INTERMEDIATE ART DESIGN 2***
In Intermediate Art Design 2, students will build on foundational art concepts while exploring new techniques and artistic styles through digital media. The course begins with a review of essential elements such as line, shape, and color, setting the stage for more advanced creative work. Students will engage in imaginative exercises, follow structured directions, and develop greater focus and attention to detail.
**Course Requirements:**
Grade Level – 5th Grade
Grade Duration – 1 Semester
Materials – None
Prerequisites – Digital Art Design 1

**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 the 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 to teach 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. This course assumes no prior computer coding knowledge and includes self-graded, multiple-choice tests and quizzes.
**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**
Spanish 1 is designed to develop an authentic and practical understanding of the Spanish language and culture. Students will have the ability to express their thoughts, feelings, and opinions in the target language within basic, real-life situations and learning scenarios. All new concepts, grammatical concepts, and cultural information will be introduced in context while incorporating various listening, speaking, and writing activities.
**Course Requirements:**
Grade Level – 1st – 5th Grade
Duration – 2 Semesters
Materials – None

**SPANISH LEVEL 2 - A & B**
Students build upon the foundation developed in Spanish 1. They continue to build vocabulary, learn new verb tenses and other grammar concepts, and they increase their ability to communicate with others. They learn new concepts, like reflexive verbs, infinitive expressions, commands, and the imperfect tense. Semester B will continue building on vocabulary, grammar concepts, and communicating effectively in the target language. Students will explore new countries where Spanish is spoken and continue to keep abreast of current events in the Spanish-speaking world.
**Course Requirements:**
Grade Level – 2nd to 5th Grade
Duration – 2 Semesters
Materials – None

**SPANISH LEVEL 3 - A & B**
Students continue to develop their ability in reading, writing, speaking, and understanding Spanish through a systematic review of its structure. Students focus on applying vocabulary in a wider array of situations by learning about the past progressive and subjunctive moods and the present perfect, future, and conditional tenses.
**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 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

# LOWER SCHOOL COURSE LIST 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 - A*
ARTS & CRAFTS 1 - A*
ARTS & CRAFTS 2 - A*
ART LEVEL 3*
INTERMEDIATE ART DESIGN 1*
INTERMEDIATE ART DESIGN 2*
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)
NON-NATIVE MORAL & SOCIAL STUDIES
NATIVE UAE SOCIAL STUDIES
NON-NATIVE/NATIVE ISLAMIC STUDIES
NON-NATIVE/NATIVE ARABIC

**NOTE ABOUT COURSE SELECTION:**
All courses with an "A&B" in the title are two semester courses.
Courses with an asterisk (*) are one semester courses.
Please check the prerequisites prior to selecting courses and electives.

# 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 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 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 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 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 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 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

# HONORS LANGUAGE ARTS

**HONORS 6TH GRADE ELA - A & B**

Ready to step up your reading and writing skills? In this course, you will examine the past and the present when you study classical and contemporary texts and examine the lasting influence of each. You will acquire a foundational understanding of the reading, writing, language, and speaking/listening skills necessary for success in college, career, and beyond. Become a critical reader and thinker as you dive into rigorous and engaging literary and informational texts by examining rhetoric and purpose through close readings, interactive practice, and formal assessments. This course will give you the skills to become an effective writer of narrative, informational, and argumentative pieces through the repeated practice of planning, drafting, revising, and editing your written work.

**Course Requirements:**
Grade Level – 6th Grade
Duration – 2 Semesters
Materials – None
Pre-requisite - 5th Grade ELA or Equivalent, Honors 6th Grade ELA A

**HONORS 7TH GRADE ELA - A & B**

Find your voice! In this course, you will study ways in which word choice and sentence structure contribute to developing perspective. You will develop the reading, writing, language, and speaking/listening skills necessary for success in college, career, and beyond with a strong connection to civics throughout the centuries. You will also examine voice, purpose, diction, syntax, and rhetoric in historical speeches, informational texts, and classic and contemporary literature through guided readings, interactive practice, and formal assessments. Prepare to grow your narrative, informational, and argumentative writing skills through the repeated practice of planning, drafting, revising, and editing your written work.

**Course Requirements:**
Grade Level – 7th Grade
Duration – 2 Semesters
Materials – None
Prerequisites - 6th Grade ELA or Equivalent, Honors 7th Grade ELA A

**HONORS 8TH GRADE ELA - A & B**

Get ready to fine-tune and strengthen your Language Arts foundations. Through reading, writing, and rhetoric, this course will allow you to examine how authors fine-tune and utilize their skills to create purposeful texts. You will develop the reading, writing, language, and speaking/listening skills necessary for success in high school, college, career, and beyond. You will also evaluate and analyze voice, purpose, diction, syntax, and rhetoric in historical speeches, informational texts, and classic and contemporary literature through guided readings, interactive practice, and formal assessments. This course will also allow you to refine your narrative, informational, and argumentative writing skills through the repeated practice of planning, drafting, revising, and editing your written work.

**Course Requirements:**
Grade Level – 8th Grade
Duration – 2 Semesters
Materials – None
Prerequisites - 7th Grade ELA or Equivalent, Honors 8th Grade ELA A

# 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

## HONORS MATH

### HONORS 6TH GRADE MATH - A & B

How do mathematicians think, write, and speak? Find out in this course, where you will experience new ways of solving problems through interactive and engaging activities. With a focus on hands-on learning and real-world application, you will be exposed to foundational concepts needed for higher-level math study. Major topics include performing operations with integers and positive rational numbers, solving problems involving ratios and rates, and using expressions and equations. You will also plot points on the coordinate plane, find the area and volume of geometric figures, and extend your understanding of statistics.

**Course Requirements:**
Grade Level – 6th Grade
Duration – 2 Semesters
Materials – None
Prerequisites - 5th Grade Math or Equivalent

### HONORS 7TH GRADE MATH - A & B

Math might seem abstract, but it's everywhere in everyday life. This course is designed to show you how math is used in real-world situations. With fun activities and interactive lessons, you'll get to experience and practice how these concepts apply to real life. Major topics of this course include performing operations with rational numbers, solving equations and inequalities, and applying proportional relationships in two variables. You will also learn to analyze circle and cylinders, compare categorical and numerical data, and develop an understanding of probability.

**Course Requirements:**
Grade Level – 7th Grade
Duration – 2 Semesters
Materials – None
Prerequisites - Honors 6th Grade Math or Equivalent

### 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
Materials – None
Prerequisites - 7th Grade Math or Equivalent, Pre-Algebra A

## 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, students 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 how 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**
**Semester A**
From the earliest human societies, principles of civics have influenced the way people live together and interact. Decisions about citizenship, distribution of power, and access to rights helped shape the governments of historical and contemporary societies, including the United States. The middle school civics course recounts important concepts in civics and related events in world and U.S. history, including: Citizens have both rights and responsibilities; The roots of modern democracy can be traced to the direct democracy of ancient Athens and the republic, or representative democracy, of ancient Rome; Medieval European monarchs ruled with absolute authority until the Magna Carta placed the first limits on royal power in England; Enlightenment ideas such as natural rights, the social contract, and popular sovereignty influenced events in the centuries that followed and continue to influence events today; Governments come in many different forms, but they always serve the same purposes; The Articles of Confederation created an ineffective first government of the United States, so they were replaced by the U.S. Constitution; The Constitution was built on ideas from American colonial history, British history, and the European Enlightenment; The Constitution separated powers among three

branches of government and included a system of checks and balances; The amendment process has allowed the Constitution to change over time; The Bill of Rights explicitly protects individual rights; Other amendments expanded the definition of citizenship and the right to vote. Students will engage in learning and applying skills connected to understanding government structures, the rights and responsibilities of citizens, the importance of civic participation, how laws are made and changed, and the role of media in shaping public opinion. These skills will help students become informed and active members of their community. Projects are provided to allow for a deeper application of skills and to create a personal connection between students and content. The projects are designed to foster independent learning and promote students to take action, use their voices, and get involved as a citizen. As students navigate these decisions, they develop self- management skills that help them organize, plan, and complete their activities effectively.

**Semester B**

From the earliest human societies, principles of economics have influenced the way people live together and interact. Decisions about the production of goods and services, money, and trade helped shape the economies of historical and contemporary societies, including the United States. The middle school economics course recounts important concepts in economics and related events in world and U.S. history, including: People use natural resources, human resources, and capital resources to produce goods and services; Economies are shaped by interactions between consumers and producers; Scarcity, opportunity costs, and incentives all influence economic decision-making; Prices are largely influenced by the principles of supply and demand; Goods and services can be exchanged by barter, money, or credit; Anywhere—real or virtual— people buy, sell, or trade goods and services is a marketplace; A society's standard of living is influenced by factors such as availability of resources, availability of goods and services, and education; Examples of these economic principles can be found throughout world history. Students explore and develop skills in understanding economic principles, analyzing market behaviors, recognizing the roles of consumers and producers, evaluating economic decisions based on resource allocation, and understanding the impact of government policies on the economy. These skills will equip students to better understand the economic world around them. Projects are provided to allow for a deeper application of skills and to create a personal connection between students and content. 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 – 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

**MS WORLD GEOGRAPHY***

World Geography explores 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, Europe, and Africa.

**Course Requirements:**

Grade Level – 6th - 8th Grade
Duration – 1 Semester
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**
Get ready to dive headfirst into the vibrant world of Spanish! From saying hello with flair to waving goodbye like a pro, students master the basics—the key to unlocking Spanish conversations. Whether they're talking about school, their daily adventures, or their preferences, students will explore the richness of Spanish-speaking countries through birthdays, holidays, and cultural celebrations.
**Course Requirements:**
Grade Level – 6th - 8th Grade
Duration – 2 Semesters
Materials – None

**MS SPANISH 2 - A & B**
**Semester A**
In Spanish 2 A, students will unlock a treasure trove of cultural and language gems. Get ready to learn how to talk about family, free time, cities, daily routine, and even communities. Students will continue to sharpen their communications skills as they learn about nationalities, occupations, family traditions, sports, music, clothing, forms of transportations, and daily routines.
**Semester B**
Get ready to learn how to talk about family, free time, cities, daily routine, and even communities in Spanish 2 B. Students will continue to sharpen their communications skills as they learn about nationalities, occupations, family traditions, sports, music, clothing, forms of transportations, and daily routines.
**Course Requirements:**
Grade Level – 6th - 8th Grade
Duration – 2 Semesters
Materials – None
Prerequisites - Spanish 1

# ELECTIVES

**MS PHYSICAL EDUCATION***

7th Grade Physical Education is intended to help students maintain an active lifestyle by presenting multiple activities to incorporate in a weekly activity log. Each week, students are provided with three activities. Students are expected to incorporate those three activities, as well as activities of their own choice, to complete the required number of activity minutes weekly.

**Course Requirements:**
Grade Level – 6th - 8th Grade
Duration – 1 Semester
Materials – None

**CTE - CBI YEAR 1 - CAREER EXPLORATIONS - A & B**

This introductory course provides students with the opportunity to explore a wide range of career fields and pathways. Through self-assessments, research projects, and interactive activities, students will identify their interests, values, and skills, aligning them with potential career options. The course emphasizes understanding the educational requirements, job responsibilities, and future outlooks of various professions, equipping students with the knowledge to make informed decisions about their career paths.

**Course Requirements:**
Grade Level – 6th - 8th Grade
Duration – 2 Semesters
Materials – None

**LIFE & LEADERSHIP SKILLS***

This course teaches students practical skills for understanding and managing their emotions, setting goals and getting organized, understanding and getting along with others in our diverse world, and making good decisions. Research shows that people who practice these skills have greater academic achievement as students and experience more success and satisfaction as adults.

**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 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. Tap into your most powerful tool today!
**Semester B**
You have already learned that critical thinking skills are, well, critical to possess but they're 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. The time has come, let's get critical!
**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 BUSINESS***
Are you interested in business, leading people, or making decisions to help a business be successful? While there are many different career choices in the field of business, in this course, you'll discover options such as management, human resources, business operations, information management, and accounting. Explore the skills you'll need, common tasks, the technology used, and characteristics of various business careers.
**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 GAME DESIGN***
We love to play video games, but have you ever wanted to build your own? If you are interested in a career in technology but also want a creative outlet, Game Design might be the field for you. Learn how to build a game from the ground up in this interactive and hands-on course that will teach you all the ins and outs of making your own game.
**Course Requirements:**
Grade Level – 6th - 8th Grade
Duration – 1 Semester
Materials – None

**MS HEALTH***

Our Middle School Health course will help the student understand the importance of making decisions that will affect his or her physical, emotional, mental and social health. This course will provide students with the knowledge and resources they will need to make responsible informed decisions about their health. Students will have an opportunity to evaluate their own values, opinions and attitudes about health.

**Course Requirements:**

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

**MS SCRATCH CODING***

Scratch is a program developed by MIT to teach 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. This course assumes no prior computer coding knowledge and includes self-graded, multiple-choice tests and quizzes.

**Course Requirements:**

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

# MIDDLE SCHOOL COURSE LIST 6–8

## LANGUAGE ARTS
6TH GRADE LANGUAGE ARTS - A & B
7TH GRADE LANGUAGE ARTS - A & B
8TH GRADE LANGUAGE ARTS - A & B
HONORS 6TH GRADE ELA - A & B
HONORS 7TH GRADE ELA - A & B
HONORS 8TH GRADE ELA - A & B

## MATH
6TH GRADE MATH - A & B
7TH GRADE MATH - A & B
8TH GRADE MATH - A & B
HONORS 6TH GRADE MATH- A & B
HONORS 7TH 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
MS WORLD GEOGRAPHY*

## 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
MS PHYSICAL EDUCATION*
CTE - CBI YEAR 1 CAREER EXPLORATIONS - A & B
LIFE & LEADERSHIP SKILLS*
MS BASIC DRAWING*
MS CRITICAL THINKING A & B
MS DIGITAL ART AND DESIGN*
MS EXPLORING MUSIC*
MS EXPLORING BUSINESS*
MS GAME DESIGN*
MS HEALTH*
MS SCRATCH CODING*
MS WORLD GEOGRAPHY*

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

**NOTE ABOUT COURSE SELECTION:**
All courses with an "A&B" in the title are two semester courses.
Courses with an asterisk (*) are one semester courses.
Please check the prerequisites prior to selecting courses and electives.

Please see the graduation requirements as per the US curriculum requirements and the UAE mandated subjects for all those graduating from the UAE. International students may not be subject to the UAE mandated subjects unless they intend to enroll in a UAE school or university from G10.

**UAE based Students (Registered with KHDA)**

| SUBJECTS | CREDITS |
|---|---|
| English | 4 credits |
| Math | 4 credits (Algebra 1 and higher) |
| Science | 4 credits (must include 2 lab science credits)* |
| Arabic A | 4 credits |
| Arabic B | 2 credits (can continue after the 2 years) |
| Islamic A/B | 2 credits (only for Muslim Students) |
| Integrated UAE SS | 2 credits |
| Social Studies | 2 credits |
| World languages | 2 credits World Languages (must be 2 credits of the same language; must be a non-English language course) |
| Physical Education | 0.5 credit |
| Health | 0.5 credit |
| Electives | 5* credits (If Muslim then 2 of the elective credits will go to Islamic Studies) |
| Total | 24 – 26 Credits (minimum requirement for graduation) |

**Non – UAE based Students (Not registered with KHDA)**

| SUBJECTS | CREDITS |
|---|---|
| English | 4 credits |
| Math | 4 credits (Algebra 1 and higher) |
| Science | 4 credits (must include 2 lab science credits)* |
| Social Studies | 4 credits |
| World languages | 2 credits World Languages (must be 2 credits of the same language; must be a non-English language course) |
| Physical Education | 0.5 credit |
| Health | 0.5 credit |
| Electives | 5 credits |
| Total | 24 credits (minimum requirement for graduation) |

# ENGLISH

**ENGLISH 9 - A & B**

**Semester A**

English 9A is an integrated curriculum. Each unit contains thematically related lessons in five domains: reading and the study of literature, reading informational text, writing, speaking and listening, and language study, which includes word knowledge and grammar skills. Topics are presented in ways that help young adolescents relate literacy skills to other aspects of their lives. Writing assignments include narrative, expository, and persuasive/argumentative modes and emphasize the use of details and reasoning to support ideas. Speaking and listening lessons in Semester A emphasize collaborative discussion skills and peer review. Vocabulary development instruction is integrated into literature and informational

text lessons. Each unit ends with an authentic assessment that presents students with a real-world scenario requiring some of the skills they learned in the unit.

**Semester B**

English 9B consists of integrated units focused on a theme or mode of study. Literature study in semester B focuses on the analysis of different forms of literature and on comparative studies of world literature and literature delivered in different media. Writing and informational text lessons guide students through the stages of research and demonstrate how to evaluate, integrate, and share the information gathered during research. Students are required to share their ideas and analysis using several different modes, including oral and multimedia presentations.

**Course Requirements:**

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

**ENGLISH 10- A & B**

**Semester A**

In English 10A, students learn how to express their thoughts and feelings in writing. Emphasis is placed on the specific traits of the 6- Traits of Writing: Ideas, Organization, Voice, Word Choice, Sentence Fluency, and Conventions. Students also review the 5-step writing process as they practice the skills of prewriting, drafting, revising, editing, and publishing. Each unit also includes instruction in the Greek roots of common English words. In English 10A students are guided through the 5-step writing process for each of the major types of writing: expository, persuasive, expressive, research, and functional. The writing projects center on each of the five major types. Students will receive comprehensive instruction on the various structures and styles of writing. Students are expected to produce original high quality examples of each of the major types of writing. Writing samples are graded against the 6-Traits of Writing.

**Semester B**

In English 10B, students broaden their reading experience with exposure to literature from around the world. Students are given vast exposure to a variety of reading samples, and are encouraged to connect and relate to the various authors and cultures within the contexts of the passages and works Reading strategies, the literary elements, and new vocabulary and Latin roots are introduced. In addition, students are guided through an active reading process in preparation to prepare them for high-stakes testing which will assess their abilities to make inferences, comprehend, and analyze a variety of reading materials. Students are expected to respond to assigned reading materials in a variety of activities and manners. Students will be graded on their abilities to review, summarize, analyze, connect, and respond to reading materials. Additionally, students will practice important reading strategies such as determining the meaning of unfamiliar words. They will produce an independent vocabulary assignment as evidence of their familiarity with these strategies. Students are also expected to create original materials in an effort to grasp the complexity of the genres.

**Course Requirements:**

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

**ENGLISH 11 - A & B**

**Semester A**

English 11A is an American Literature course, with units organized chronologically according to periods in literary history. As students read foundational works of literature and other historical documents written between 1600 and 1900, they'll review and extend skills in five domains: analyzing literature, analyzing informational text, writing, speaking and listening, and language study, which includes word knowledge and grammar skills. Each module

or unit begins with a lesson that provides historical context for the era and introduces themes that emerged in the literature of that era. Each lesson provides students with an opportunity to review basic analysis skills before applying those skills to works of literature or key historical documents. Lessons focused on more difficult historical documents include activities that help students comprehend the complex ideas in these works. Writing modes addressed in Semester A of this course include narrative, reflective, persuasive, and analytical modes. Assignments emphasize the use of details, evidence, and reasoning to support ideas; writing lessons include model essays that demonstrate key features of each mode. The speaking and listening lessons in Semester A cover rhetoric, the peer review or writing workshop process, and performance skills. Vocabulary development instruction is integrated into literature and informational text lessons. Each unit ends with an authentic assessment that presents students with a real-world scenario requiring some of the skills they learned in the unit.

**Semester B**

English 11B focuses on historical eras and literary movements of the 20th and 21st century, such as Naturalism, Imagism, the Harlem Renaissance, and Post- Modernism. Literature analysis lessons in semester B focus on the forms of literature that were most commonly written during the Twentieth Century and how the forms, styles, and techniques of that century inform literature written today. Students will also evaluate various modes and forms of language expression, including single media and multimedia messages. Writing and informational text lessons guide students through the stages of a rigorous research process and demonstrate how to evaluate, integrate, and share the information gathered during research. Students are required to share their ideas and analysis using several different modes, including oral and multimedia presentations.

**Course Requirements:**
Grade Level – 11th Grade
Duration – 2 Semesters
Prerequisites – English 10 or equivalent
Materials – None

**ENGLISH 12 - A & B**

**Semester A**

Semester A focuses on British Literature from the Anglo-Saxon period up to Romanticism. Students will analyze how the English language evolved over time and how events of the time influenced the writings for each period. Epics, short stories, poetry, drama, and essays will be analyzed in depth to enrich students' comprehension. Each module includes a style of composition for students to explore with the help of student examples to act as a guide.

**Semester B**

Semester B continues with the Victorian era to Modernism of British Literature. Students will explore fiction and nonfiction of the Victorian Era in addition to applying what they have learned from the course to the study of a novel. The course ends with students practicing and polishing their public speaking and performance skills.

**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**

Honors English 9A is an integrated curriculum with challenging assignments aimed at preparing Honors-level students for advanced work in the study of literature and language arts. Each unit contains thematically related lessons in five domains: reading and the study of literature, reading informational text, writing, speaking and listening, and language study, which includes word knowledge and grammar skills. Topics are presented in ways that help young adolescents relate literacy skills to other

aspects of their lives. Writing assignments include narrative, expository, and persuasive/argumentative modes and emphasize the use of details and reasoning to support ideas. Speaking and listening lessons in Semester A emphasize collaborative discussion skills and peer review. Vocabulary development instruction is integrated into literature and informational text lessons. Each unit ends with an authentic assessment that presents students with a real-world scenario requiring some of the skills they learned in the unit.

**Semester B**

Honors English 9B consists of integrated units focused on a theme or mode of study. Literature study in semester B focuses on the analysis of different forms of literature and on comparative studies of world literature and literature delivered in different media. Writing and informational text lessons guide students through the stages of research and demonstrate how to evaluate, integrate, and share the information gathered during research. Students are required to share their ideas and analysis using several different modes, including oral and multimedia presentations.

**Course Requirements:**

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

**HONORS ENGLISH 10 - A & B**

**Semester A**

In Honors English 10A, students learn how to express their thoughts and feelings in writing. Emphasis is placed on the specific traits of the 6- Traits of Writing: Ideas, Organization, Voice, Word Choice, Sentence Fluency, and Conventions. Students also review the 5-step writing process as they practice the skills of prewriting, drafting, revising, editing, and publishing. Each unit also includes instruction in the Greek roots of common English words. Students are guided through the 5-step writing process for each of the major types of writing: expository, persuasive, expressive, research, and functional. The writing projects center on each of the five major types. Students will receive comprehensive instruction on the various structures and styles of writing. Students are expected to produce original high-quality examples of each of the major types of writing. Writing samples are graded against the 6-Traits of Writing.

**Semester B**

In Honors English 10B, students broaden their reading experience with exposure to literature from around the world. Students are given vast exposure to a variety of reading samples, and are encouraged to connect and relate to the various authors and cultures within the contexts of the passages and works Reading strategies, the literary elements, and new vocabulary and Latin roots are introduced. In addition, students are guided through an active reading process in preparation to prepare them for high-stakes testing which will assess their abilities to make inferences, comprehend, and analyze a variety of reading materials. Students are expected to respond to assigned reading materials in a variety of activities and manners. Students will be graded on their abilities to review, summarize, analyze, connect, and respond to reading materials. Additionally, students will practice important reading strategies such as determining the meaning of unfamiliar words. They will produce an independent vocabulary assignment as evidence of their familiarity with these strategies. Students are also expected to create original materials in an effort to grasp the complexity of the genres.

**Course Requirements:**

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

**HONORS ENGLISH 11 - A & B**
**Semester A**
Honors English 11A is an American Literature course, with units organized chronologically according to periods in literary history. As students read foundational works of literature and other historical documents written between 1600 and 1900, they'll review and extend skills in five domains: analyzing literature, analyzing informational text, writing, speaking and listening, and language study, which includes word knowledge and grammar skills. Each module or unit begins with a lesson that provides historical context for the era and introduces themes that emerged in the literature of that era. Each lesson provides students with an opportunity to review basic analysis skills before applying those skills to works of literature or key historical documents. Lessons focused on more difficult historical documents include activities that help students comprehend the complex ideas in these works. Writing modes addressed in Semester A of this course include narrative, reflective, persuasive, and analytical modes. Assignments emphasize the use of details, evidence, and reasoning to support ideas; writing lessons include model essays that demonstrate key features of each mode. The speaking and listening lessons in Semester A cover rhetoric, the peer review or writing workshop process, and performance skills. Vocabulary development instruction is integrated into literature and informational text lessons. Each unit ends with an authentic assessment that presents students with a real-world scenario requiring some of the skills they learned in the unit.
**Semester B**
Honors English 11B consists of units focused on historical eras and literary movements of the 20th and 21st centuries, such as Naturalism, Imagism, the Harlem Renaissance, and Post-Modernism. Literature analysis lessons in semester B focus on the forms of literature that were most commonly written during the Twentieth Century and how the forms, styles, and techniques of that century inform literature written today. Students will also evaluate various modes and forms of language expression, including single media and multimedia messages. Writing and informational text lessons guide students through the stages of a rigorous research process and demonstrate how to evaluate, integrate, and share the information gathered during research. Students are required to share their ideas and analysis using several different modes, including oral and multimedia presentations. As in Semester A, the second semester of Honors English 11 provides additional challenging assignments aimed at preparing college-bound students for advanced work in the study of literature and language arts.
**Course Requirements:**
Grade Level – 11th Grade
Duration – 2 Semesters
Prerequisites – English 10 or equivalent
Materials – None

**HONORS ENGLISH 12 - A & B**
**Semester A**
Honors English 12A focuses on British Literature from the Anglo-Saxon period up to Romanticism. Students will analyze how the English language evolved over time and how events of the time influenced the writings for each period. Epics, short stories, poetry, drama, and essays will be analyzed in depth to enrich students' comprehension. Each module includes a style of composition for students to explore with the help of student examples to act as a guide.
**Semester B**
Honors English 12B continues with the Victorian era to Modernism of British Literature. Students will explore fiction and nonfiction of the Victorian Era in addition to applying what they have learned from the course to the study of a novel. The course ends with students practicing and polishing their public speaking and performance skills.

**Course Requirements:**
Grade Level – 12th Grade
Duration – 2 Semesters
Prerequisites – English 11 or equivalent
Materials – None

## AP ENGLISH

**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
Prerequisites – English 11 and Teacher Recommendation - Students must have a min of B+ in English 11
*Reading list detailed in Appendix B.
Prerequisites - Honors English 11 or Equivalent

## MATH

**ALGEBRA 1 - A & B**
**Semester A**
Students begin the first semester of Algebra 1A with a review of the basic tools of algebra, including properties of operations, combining like terms, and solving simple equations and inequalities. More complex concepts are built on these basics. Students learn about linear models, linear inequalities, statistics, linear functions, transformations, sequences, and systems of linear equations. The course also includes lessons on linear inequalities.
**Semester B**
In Algebra 1B, students focus on exponential and quadratic functions. They will learn how to read, write and graph these function types. They will also learn where they can find exponential and quadratic functions in their own worlds. In this semester, special attention is given to making meaningful comparisons of linear, exponential and quadratic growth. Students also spend time learning about geometric sequences, polynomials, factoring, radical equations, piecewise defined functions, as well as rational expressions and equations. The semester concludes with a comprehensive review of the course.
**Course Requirements:**
Grade Level – 9th - 12th Grade
Duration – 2 Semesters
Materials – None

**GEOMETRY - A & B**
**Semester A**
Geometry is the study of the measurement of the world. What makes Geometry so engaging is the relationship of figures and measures to each other, and how these relationships can predict results in the world around us. Through practical applications, the student sees how geometric reasoning provides insight into everyday life. The course begins with the tools needed in Geometry. From these foundations, the student explores the measure of line segments, angles, and two-dimensional figures. Students will learn about similarity, triangles and trigonometric ratios. Geometry A consists of six modules. Each module comprises ten lessons for a total of 60 lessons in the course.
**Semester B**
Geometry B builds on the foundation of the first terms in Geometry. As in previous courses, deductive and inductive reasoning are emphasized, while applying problem-solving techniques to real-world problems. Students explore quadrilaterals and circles and learn how an object is transformed, as well as how to represent that transformation algebraically and geometrically. Students calculate area and volume of two-dimensional and three-dimensional objects. Geometry B consists of six modules. Each module

comprises ten lessons for a total of 60 lessons in the course.
**Course Requirements:**
Grade Level – 9th - 12th Grade
Duration – 2 Semesters
Materials – None
Prerequisites - Sem A: Grade 8 Math, Sem B: Algebra 1

**ALGEBRA 2 - A & B**
**Semester A**
Algebra 2A further extends the learner's understanding of major algebra concepts such as expressions, equations, functions, and inequalities. An emphasis will be placed on the 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.
**Semester B**
Algebra 2B builds on the concepts learned in the first semester and prepares the learners with the building blocks needed to dive deeper into trigonometry, pre-calculus, and advanced probability and statistics.
**Course Requirements:**
Grade Level – 9th - 12th Grade
Duration – 2 Semesters
Materials – None
Prerequisites - Sem A: Algebra 1, Sem B: Algebra 2A

**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, area, 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.
**Semester 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

**INTEGRATED MATH 3 - A & B**
**Semester A**
This course blends algebra, geometry, number and quantity, functions, modeling and statistics and probability into one course. Students begin the course learning about the algebraic concepts of functions, equations, logarithms, and graphs and then transitions into triangle and trig ratios. They dive into rational functions and sequences and series.
**Semester B**
In this semester, students begin by studying counting methods, probabilities, distributions, area, volume, parabolas, circles,

ellipses, hyperbolas and systems of equations and inequalities. They finish their course of study learning about trigonometry functions and identities.
**Course Requirements:**
Grade Level – 10th - 12th Grade
Duration – 2 Semesters
Materials – None
Prerequisites - Integrated Math 2 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 - Sem A: Algebra 2,
Sem B: Pre-Calculus A

## 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 begin Honors Algebra 1 A with a review of the basic tools of algebra, including properties of operations, combining like terms, and solving simple equations and inequalities. More complex concepts are built on these basics. Students learn about linear models, linear inequalities, statistics, linear functions, transformations, sequences, and systems of linear equations. The course also includes lessons on linear inequalities.
**Semester B**
In the second semester of Honors Algebra 1, students focus on exponential and quadratic functions. They will learn how to read, write and graph these function types. They will also learn where they can find exponential and quadratic functions in their own worlds. In this semester, special attention is given to making meaningful comparisons of linear, exponential and quadratic growth. Students also spend time learning about geometric sequences, polynomials, factoring, radical equations, piecewise defined functions, as well as rational expressions and equations. The semester concludes with a comprehensive review of the course.
**Course Requirements:**
Grade Level – 9th - 12th Grade
Duration – 2 Semesters
Materials – None

**HONORS GEOMETRY - A & B**
**Semester A**
Honors Geometry A is the study of the measurement of the world, with a focus on application of geometric concepts. What makes Geometry so engaging is the relationship of figures and measures to each other, and how these relationships can predict results in the world around us. Through real-world applications, the honors student sees how geometric reasoning provides insight into everyday life. The course begins with the tools needed in Geometry. From these foundations, the student explores the measure of line segments, angles, and two-dimensional figures. Students will learn about similarity,

triangles, and trigonometric ratios. Honors Geometry A consists of six modules. Each module includes ten lessons for a total of 60 lessons in the course.

**Semester B**

Honors Geometry B builds on the foundation of the first terms in Geometry. As in previous courses, deductive and inductive reasoning are emphasized, while applying problem-solving techniques to real-world problems. Students explore quadrilaterals and circles and learn how an object is transformed, as well as how to represent that transformation algebraically and geometrically. Students calculate area and volume of two-dimensional and three-dimensional objects. Honors Geometry B consists of six modules. Each module comprises ten lessons for a total of 60 lessons in the course. Honors students are expected to complete several assignments within each module that demonstrate their knowledge of the applications of geometry.

**Course Requirements:**

Grade Level – 9th - 12th Grade
Duration – 2 Semesters
Materials – None
Prerequisites - Sem A: Grade 8 Math, Sem B: Geometry A

### HONORS ALGEBRA 2 - A & B

**Semester A**

Honors Algebra 2 A further extends the learner's understanding of major algebra concepts such as expressions, equations, functions, and inequalities. An emphasis will be placed on the 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.

**Semester B**

Honors Algebra 2 B builds on the concepts learned in the first semester and prepares the learners with the building blocks needed to dive deeper into trigonometry, pre-calculus, and advanced probability and statistics.

**Course Requirements:**

Grade Level – 9th - 12th Grade
Duration – 2 Semesters
Materials – Calculator
Prerequisites – Sem A: Algebra 1, Sem B: Algebra 2A

## 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 – Sem A: Pre-Calculus. Students must have a min of B+ in Pre Calculus., Sem B: AP Calculus AB A

### 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 - Sem A: Pre-Calculus. Students must have a min of B+ in Pre Calculus., Sem B: AP Calculus BC A

# SCIENCE

**PHYSICAL SCIENCE - A & B**

Physical Science A & B is an introduction to the physical sciences and scientific methodology. The objectives are to impart a basic knowledge of the physical properties and chemistry of matter. Skills are developed in the classroom and reinforced through homework reading and interesting labs that relate to everyday life.

**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**

Biology A introduces students to the scientific method and the major concepts of biology from a historical and practical viewpoint. The three major themes of this course are the cell, the molecular basis of heredity, and the interdependence of organisms. Students who take this class will have a deeper appreciation for the complexities of living organisms. Life on this planet, unlike anywhere else in the observable universe, is complex and highly organized. Whether examining life on the molecular or the planetary level, it exhibits a highly organized structure that inspires awe by its genius and complexity. In the last 50 years, discoveries have launched new branches of biology that have transformed the daily routine, from conception to death. New challenges await, such as the current crisis in ecology, global warming, and the resurgence in viral disease. Biology A is presented in a multimedia format using interactive modules, labs, narrated animation, text, and videos to present the study of life on this planet.

**Semester B**

Biology B covers population dynamics through the study of mutualism, predation,

parasitism, and competition. Biochemists first astounded the world by showing that life obeys the same chemical principles as all creation, but that life engineers chemistry to its own needs. Decades later, Darwin shocked the world by suggesting that life evolves according to the conditions of the environment it inhabits. This semester continues to examine the wonder of life and its mechanisms.

**Course Requirements:**
Grade Level – 9th - 12th Grade
Duration – 2 Semesters
Materials – None
Prerequisites – Sem A: None, Sem B: Biology A

**CHEMISTRY - A & B**
**Semester A**
Chemistry A introduces students to the science of chemistry, exploring why scientists are interested in studying matter at a submicroscopic level. Students will continue to learn how scientific methods are used to understand the natural world and will continue to develop their skills in this area. Chemistry A covers topics in the characteristics of matter, atomic structure, chemical periodicity, chemical bonds and compounds, and chemical formula writing and naming.
**Semester B**
Chemistry B builds on the concepts and skills learned in the first semester as students continue to explore the properties of matter and the changes it undergoes. Chemistry B covers topics in chemical reactions and stoichiometry, gases, thermochemistry, kinetics, equilibrium, acids and bases, organic chemistry, and biochemistry.
**Course Requirements:**
Grade Level – 10th - 12th Grade
Duration – 2 Semesters
Materials – Graphing Calculator
Prerequisites - Sem A: Algebra 1, Sem B: Chemistry A

**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 students 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. Students 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

## HONORS SCIENCE

### HONORS BIOLOGY - A & B

**Semester A**

Honors Biology A begins with cell theory, including the structure, function, and chemistry of the cell. The chemistry and function of each cell shapes the lifestyle of the organism, from feeding to reproductive patterns. This course in biology focuses on the life of the cell, dealing with issues of structure, transport, genetics, protein synthesis, energy production, and usage. The tools of science are explained and then focused on the living systems in the cell. In the case of genetics, the molecular behavior of DNA is elaborated to show how it determines the visible traits of the organism and population. Students are led on a tour of living systems from the tiniest to the broadest levels of organization. During this tour, students will employ text, computer simulations, and hands-on investigation to verify each concept and make them relevant to what they see each day. The aim of this course is to guide the student to see the world in biological terms and then to expand their vision to contemplate current topics in biological research and application.

**Semester B**

In Honors Biology B, the major concepts covered are population dynamics and evolution. Students explore population dynamics through the study of mutualism, predation, parasitism, and competition. The theory of evolution is presented, along with the many evidences and details that make evolution the backbone of modern biology. From biochemistry to evolution, biology fascinates people. Biochemists first astounded the world by showing that life obeys the same chemical principles as all creation, but that life engineers chemistry to its own needs. This second course in biology examines the wonder of life and its mechanisms.

**Course Requirements:**

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

### HONORS CHEMISTRY - A & B

**Semester A**

Honors Chemistry A introduces students to the science of chemistry, beginning with exploring why scientists are interested in studying matter at a submicroscopic level. Students will continue to learn how scientific methods are used to understand the natural world and will continue to develop their skills in this area. Chemistry A covers topics in the characteristics of matter, atomic structure, chemical periodicity, chemical bonds and compounds, and chemical formula writing and naming. An algebra background is recommended because of the amount and type of math involved.

**Semester B**

Honors Chemistry B builds on the concepts and skills learned in the first semester as students continue to explore the properties of matter and the changes it undergoes. Chemistry B covers topics in chemical reactions and stoichiometry, gases, thermochemistry, kinetics, equilibrium, acids and bases, organic chemistry, and biochemistry. An algebra background is

recommended because of the type of math involved.
**Course Requirements:**
Grade Level – 10th - 12th Grade
Duration – 2 Semesters
Materials – None
Prerequisites - Sem A: Algebra 1, Sem B: Chemistry A

**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 students know and can use trigonometry.
**Course Requirements:**
Grade Level – 11th – 12th Grade
Duration – 2 Semesters
Materials – None
Prerequisites - Algebra – Geometry

## 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 – Achieve for Biology for the AP Course Edition 1
**Please note this text must be purchased separately as an e-textbook. Your teacher will provide instructions during the first week 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 – Chemistry, Jason Overby. 15th Edition, ©2025 (Digital)
ISBN-10: 1265353077
ISBN-13: 978-1265353070
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 ENVIRONMENTAL SCIENCE - A & B**
With the current changes in global climate, rising sea levels, and warming oceans, it is important for students to discover the state of Earth's systems and the consequences of human activities. AP Environmental Science provides students with a global view of their world and their role in it. It examines the scientific principles and concepts required to understand the interrelationships between ocean, land, and atmosphere that guide the natural world and allow Earth to be a planet suitable for life. Laboratory activities within the course support their learning of these relationships through reflective, hands-on, or virtual experiences. In addition, students identify and analyze environmental problems that are natural and human-made, determining their own ecological footprint in the world to discover how their activities affect the world around them. They evaluate the relative risks associated with environmental problems and examine alternative solutions, such as clean energy, sustainable practices, and conservation, for resolving or preventing future environmental problems.
**Course Requirements:**
*Additional costs may apply
Grade Level – 11th – 12th Grade
Duration – 2 Semesters
Materials – None
Prerequisites - Algebra 1

**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: A Strategic Approach 4th Edition

## HISTORY

**WORLD HISTORY - A & B**
**Semester A**
World History A begins with a focus on the skills needed to read, understand, and analyze history, also demonstrating how historians and social scientists arrive at their conclusions about human history. Semester A covers the history of civilization from hunter-gatherer societies through the characteristics of the earliest civilizations to the Enlightenment period in Western Europe. The second half of Semester A explores early intellectual, spiritual, and political movements and their impact on interactions among world cultures.
**Semester B**
World History B applies the reading and analytical strategies introduced in Semester A to the events and movements that created the modern world. In the second semester, World History emphasizes the effects of the Industrial Revolution and changing attitudes about science and religion as well as the impact of European colonization. Students are encouraged to make connections between World War I and II, events related to the Cold War, and between 19th-century imperialism and modern independence movements.

**Course Requirements:**
Grade Level – 9th - 12th Grade
Duration – 2 Semesters
Materials – None

**WORLD GEOGRAPHY - A & B**
**Semester A**
Students will be taught to use the basic skills of map reading and development, geographic technology, and the recognition of geographic themes to make sense of the world. The course examines world regions including the nations, people, and cultures of the Americas and Western Europe.
**Semester B**
World Geography and Cultures B continues to teach the basic skills of map reading and development, the use of geographic technology, and the recognition of geographic themes. The focus examines the world regions, including the nations, people, and cultures of Central Europe and Northern Eurasia, Central and Southwest Asia, South Asia, Africa, East Asia, and the Pacific.
**Course Requirements:**
Grade Level – 9th - 12th Grade
Duration – 2 Semesters
Materials – None

**AMERICAN HISTORY - A & B**
**Semester A**
American History A covers the discovery, development, and growth of the United States. Major topics include American Indian cultures, European colonization of the Americas, and the causes and effects of the American Revolution. Geographical, economic, and political factors are explored as the key factors in the growth of the United States of America. American History A is a survey of the struggle to build the United States of America from the colonial period to the beginning of the 20th century. By means of reading, analyzing, and applying historical data, students come to appreciate the forces that shaped our history and character as an American people. Not only are the topics of American history discussed, but students also explore research methods and determine accurate sources of data from the past. Knowing the facts and dates of history are just the beginning: each student must understand how history affects him or her.
**Semester B**
American History B begins with a study of American life before the 1929 Stock Market Crash and how the Roaring Twenties influenced society in the late 19th through early 20th centuries. Students will examine the causes and consequences of the Great Depression and move on into a detailed study of World War II with an emphasis on America's role in the conflict. The course continues with an analysis of the Cold War struggle and America's rise as a superpower. The Civil Rights and Women's Rights Movements, pollution and the environment, and American domestic and foreign policy will be examined. The course wraps up with a summary of current events and issues, including a study of the Middle East. This course begins with an assessment of life in the United States Pre-World War I and ends with the conflicts of the new millennium. Students look at the nation in terms of economic, social, and political trends. The experiences of the last century are summarized, including a look into the civil rights issues that have embroiled the nation in conflict. The development of the United States of America into a superpower is explored within a global context.
**Course Requirements:**
Grade Level – 10th - 12th Grade
Duration – 2 Semesters
Materials – None

**AMERICAN GOVERNMENT***
The American Government will guide students through an in-depth study of the history, structure, and guiding principles of American government. The first unit will review the origins of government in general and American government in particular—from the earliest models for democracy to the founding documents that created a federalist system of government in the U.S. Several units will help students

explore the roles and responsibilities of each branch of government as well as the impact that the Constitution has had and continues to have on the way government works and on the lives of individual Americans. The course's final unit will guide students through a series of projects that require them to apply what they have learned about the American government to an issue that interests them.

**Course Requirements:**
Grade Level – 11th - 12th Grade
Duration – 1 Semester
Materials – None
Prerequisites - American History

**ECONOMICS***

This course introduces the principles and the applications of economics in everyday life. Students develop an understanding of limited resources and compare it with unlimited wants and needs. Students learn how individual and national economic decisions are made to allocate goods and services among competing users. Students apply economic principles to think and problem solve. The study of Economics uses the view of economic institutions and policies to explore the history, organization, and functions of the U.S. government in controlling the economy. Students will develop the critical skills of analysis, synthesis, and evaluation in a demanding and thoughtful academic setting. Students are encouraged to use their knowledge of the policies and institutions of economics to develop their own views on current economic and monetary issues. They are taught how to apply what they have learned into personal financial activities. The course looks closely at the economic knowledge and values of the country and gives students a look into the problems faced by presidents and congressional representatives. It also covers the roles of political activists, political parties, interest groups, and the media in shaping the U. S. economy. The Supreme Court is presented as the voice of reason in the balance of powers. Students are encouraged to perform at higher levels as they are presented with historical documents and additional readings, work with a set of facts arranged by theme, become skillful in note-taking, and join in student discussions. Students develop and demonstrate their writing skills by preparing extended research-based papers.

**Course Requirements:**
Grade Level – 10th - 12th Grade
Duration – 1 Semester
Materials – None

## HONORS HISTORY

**HONORS WORLD HISTORY - A & B**

**Semester A**

Honors World History A begins with a focus on the skills needed to read, understand, and analyze history, also demonstrating how historians and social scientists arrive at their conclusions about human history. Semester A covers the history of civilization from hunter-gatherer societies through the characteristics of the earliest civilizations to the Enlightenment period in Western Europe. The second half of Semester A explores early intellectual, spiritual, and political movements and their impact on interactions among world cultures.

**Semester B**

Honors World History B applies the reading and analytical strategies introduced in Semester A to the events and movements that created the modern world. In the second semester, Honors World History emphasizes the effects of the Industrial Revolution and changing attitudes about science and religion as well as the impact of European colonization. Students are encouraged to make connections between World War I and II and events related to the Cold War and between 19th-century imperialism and modern independence movements.

**Course Requirements:**
Grade Level – 9th - 12th Grade
Duration – 2 Semesters
Materials – None

**HONORS AMERICAN HISTORY - A & B**
**Semester A**
Honors American History A covers the discovery, development, and growth of the United States. Major topics include Native American cultures, European colonization of the Americas, and the causes and effects of the American Revolution. Geographical, economic, and political factors are explored as the key factors in the growth of the United States of America. The course is a survey of the struggle to build the United States of America from the colonial period to the beginning of the twentieth century. By means of reading, analyzing, and applying historical data, students come to appreciate the forces that shaped our history and character as an American people. Not only are the topics of American history discussed, but students also explore research methods and determine accurate sources of data from the past. Knowing the facts and dates of history are just the beginning: each student must understand how history affects him or her.
**Semester B**
Honors American History B begins with a study of American life before the 1929 Stock Market crash and how the Roaring Twenties influenced society in the late 19th through early 20th centuries. Students will examine the causes and consequences of the Great Depression and move on into a detailed study of World War II with an emphasis on America's role in the conflict. The course continues with an analysis of the Cold War struggle and America's rise as a superpower. The Civil Rights and Women's rights movements, pollution and the environment, and American domestic and foreign policy will be examined. The course wraps up with a summary of current events and issues, including a study of the Middle East. Students look at the nation in terms of economic, social, and political trends. The experiences of the last century are summarized, including a look into the civil rights issues that have embroiled the nation in conflict. The development of the United States of America into a superpower is explored within a global context.
**Course Requirements:**
Grade Level – 10th - 12th Grade
Duration – 2 Semesters
Materials – None

**HONORS AMERICAN GOVERNMENT***
Honors American Government provides the student with the basic knowledge of the history and philosophy of the United States government and the principles that guide democracy. The student examines the United States Constitution to answer questions and determine the facts of government. The course focuses on the functions and duties of the three branches of government, which are the legislative, executive, and judicial. Special attention is given to political participation, the rights and responsibilities of citizenship, and government systems of the world. Honors American Government references the view of political institutions to explore the history, organization, and functions of the U.S. government. A goal of the course is for the students to develop the critical skills of analysis, synthesis, and evaluation in a demanding and thoughtful academic setting. Students are encouraged to use their knowledge of the organizations and management of governing to develop their own views on current political issues. Then, students are taught how to apply what they have learned into civic action. The course looks closely at the political knowledge and values of the country as it gives students a look into the problems faced by presidents, congressional representatives, and other political figures. It also covers the roles of political parties, interest groups, and the media in shaping the government. The Supreme Court is presented as the voice of reason in the balance of powers. Students are encouraged to perform at higher levels as they analyze historical documents and additional readings, work with a set of facts arranged by theme, become skillful in note taking, and join in student discussions. Students develop

and demonstrate their writing skills by preparing extended research-based papers and through participation in community service.
**Course Requirements:**
Grade Level – 11th - 12th Grade
Duration – 1 Semester
Materials – None
Prerequisites - American History

## 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 – We the People: An Introduction to American Politics, 14th Essentials Edition.
**Please note this text must be purchased separately as an e-textbook. Your teacher will provide instructions during the first week of the course.*
Prerequisites - American History

**AP MACROECONOMICS***
In this course, students establish the fundamentals of economics, with a survey of scarcity, opportunity cost, supply, demand, and market equilibrium. They then zoom out to the largest scale of economic analysis, learning the indicators of whole countries' economic health, specifically gross domestic product, unemployment, and price level. With that foundation, the rest of the course looks at fiscal and monetary policies, their consequences, and the basics of international trade and the foreign exchange market. Besides being intentionally prepared for the AP Exam, students will gain a much deeper understanding of the world around them, the roles that government and banks play in an economy, and the economic outcomes generated by their policy decisions.
**Course Requirements:**
*Additional costs may apply
Grade Level – 11th - 12th Grade
Duration – 1 Semester
Materials – None
Prerequisites - Algebra 1 and Economics
Students must have a min of B+ in Economics

**AP Microeconomics***
In this course, students explore the power of marginal thinking and apply it to common decisions that individuals and business firms encounter each day. Students examine, interpret, analyze, and model key microeconomics concepts and processes, from the shifting supply and demand for familiar products to the model of the labor market and how wages are determined. This rich course provides students with all the material and practice needed for success on the AP Exam. Yet, this is just the beginning—in the long run, taking AP Microeconomics will develop the critical thinking and analytical skills that empower students for a lifetime.

**Course Requirements:**
*Additional costs may apply
Grade Level – 11th - 12th Grade
Duration – 1 Semester
Materials – None
Prerequisites - Algebra 1 and Economics
Students must have a min of B+ in Economics

**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: An American History Brief 7th High School Edition
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 – Ways of the World for the AP World History Modern Course
Prerequisites - World 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 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 – Semester A: La Casa en Mango Street by Sandra Cisneros ISBN: 1644734281
Semester B: Senderos fronterizos by Francisco Jimenez ISBN: 0618226184
Prerequisites – Sem A: Spanish 3 and teacher recommendation,
Sem B: AP Spanish A

## ELECTIVES

**ART HISTORY***
Art History integrates the four components of art study: art production, historical and cultural context, critical process, and aesthetic process. Students will be able to identify and describe art from prehistoric times to modern time. Throughout this course, students will discuss various artworks, research artists, and create documents and presentations demonstrating concepts learned.
**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 peered 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

**CONCEPTS OF ENGINEERING***
Learn how the momentum of science is continually propelling engineers in new directions towards a future full of insight and opportunity. Explore the different branches of engineering and how problem-solving, sketching, collaboration, and experimentation can change the very fiber of our human lives. By examining astounding engineering feats and complex ongoing issues, you'll begin to question whether the word impossible really exists.
**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 needs. 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

**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**
In Psychology A, students begin by learning a brief history of psychologists and their experimental methods. Next they examine personality theories. Then, human development from the infant stage through the adult stage is explored. Finally, the course focuses on the nature of consciousness. Students are encouraged to increase their own self-awareness as they move through the course.
**Semester B**
Students continue to learn about Psychology in Semester B. Students examine the nature of intelligence in humans and animals, including the origin of intelligence and how to measure it. They learn about learning with an emphasis on classical and operant conditioning. Students also investigate social psychology and psychological disorders. They demonstrate their understanding by completing projects in which they play roles like teacher, parent, and psychologist.
**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

**WORKPLACE AND INTERNSHIP READINESS***
Starting your first "real" job can be intimidating. But when you know what to expect and learn how to be successful, you'll feel confident about the hiring process and prepared to put yourself out there! Discover how to build a well-rounded set of employability and personal leadership skills that allow you to guide your own career. Learn how to communicate with others, take initiative, set goals, problem-solve, research different career options, and envision your own personal career path. Get ready to create a powerful launching pad that will help you blast off into a great first job experience!
**Course Requirements:**
Grade Level – 9th - 12th Grade
Duration – 1 Semester
Materials – None

# 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 agricultural scientists 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

**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 food service 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; Garage- Band (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 web pages 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***
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 interviews 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 healthier.
**Course Requirements:**
Grade Level – 9th - 12th Grade
Duration – 1 Semester
Materials – None

**PRINCIPLES OF BUSINESS, MARKETING & FINANCE I - A & B**
**Semester A**
Discover the fundamental knowledge that will help you pursue a career in business, as well as always generating interest and buzz around the products and services offered. Explore different types of businesses and ownership forms, the impact of governments

on business, and the marketing of goods and services. Learn about globalization, free trade, and various economic systems, as well as the impact of technology on business, business ethics, and social responsibility.
**Semester B**
Take your knowledge of business basics, finance, and marketing to the next level. Learn how to create a marketing strategy that promotes and attracts customers in order to sell a product or service. Explore important basics of business finance, including accounting, budgeting, and investing. And learn what careers are available in business and the important employability skills you'll need to ace the interview and land the job!
**Course Requirements:**
Grade Level – 9th - 12th Grade
Duration – 2 Semesters
Materials – None

**ROBOTICS - A & B**
Introduces students to the design, construction, and operation of robots. Covers topics such as mechanics, physics, engineering design, motion, electrical signals, logic, AI, and robotics-related STEM careers. Students learn both theoretical and practical aspects of robotics through sketches, modeling, and project-based learning.
**Course Requirements:**
Grade Level – 9th - 12th Grade
Duration – 2 Semesters
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.
**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**
Students begin this course by exploring the different dimensions of good health and ways they can take charge of managing their health. The semester continues with a focus on good nutrition and safe food preparation and handling. Then, students take an in-depth look at the elements of physical fitness and its importance across the lifespan. A discussion of infectious and noninfectious diseases follows, with an emphasis on preventing disease. Students then investigate substance use and abuse, and their effects on health. The course concludes with a focus on community and environmental health along with safety in the home, school, and community.
**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 for which to find the time. 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 for a healthy lifestyle 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

## KHDA COURSES (UAE STUDENTS ONLY/ GRADE DEPENDENT)

UAE Curriculum: All UAE Resident Students iCademy offers the mandated UAE curriculum subjects for all UAE based students. The school provides the required weekly instructional time via live lessons, recorded sessions and assignments and tasks completed by students offline, but all assignments contribute to the curriculum. These courses attract credits for graduation alongside other core curriculum subjects. Islamic Education for Arabs and Arabic as a first language and the main language of instruction is Standard Arabic. Social Studies is also taught in Arabic for Arab students. Arabic as a first language, Islamic Education and Social Studies, are placed in separate classes for Arabs and non-Arabs
For non-Arab speaking students, Islamic Education and Moral, Social and Cultural studies are taught in English. In addition, for expat, non-Arab students, Moral Education curriculum is taught as part of the Moral,Social and Cultural (MSC) studies and is taught in English.

| **Arab Students** | | |
|---|---|---|
| **UAE Curriculum subjects** | Grade Levels | Optional * |
| *Mandatory* | | |
| Arabic A | KG-G12 | |
| Islamic A | G1-G12 | |
| UAE Social Studies A | G1-G9 | G10-G12* |
| Moral Education A | G1-G12 | |
| **Non-Arab/Expat Students based in the UAE** | | |
| *Mandatory* | | |
| Arabic B | G1-G9 | G10-G12* |
| Islamic B | G1-G12 | |
| Moral, Social and Cultural Studies (MSC) * | G1-G10 | G10-G12* |

**ARABIC LANGUAGE A FOR NATIVE SPEAKERS**
The Arabic language curriculum seeks to enable students to use the language as a tool for thinking and self-expression by building reading, writing, listening and speaking skills, to develop positive attitudes towards the Arabic language in students and to provide them with the knowledge and skills necessary to use the Arabic language efficiently. The course aims to develop reading skills and reading comprehension strategies such as prediction, comparison, recall, summarization, inference, and conclusion through reading and analyzing informational, anecdotal, theatrical, and poetic texts. Students are also exposed to the use of language in writing various texts suitable for the stage, such as stories, letters, informational reports, persuasive articles, in addition to writing for personal pleasure. This course includes several selected poetic and prose literary texts from different eras of Arabic literature with a focus on analytical and critical skills.
**Course Requirements:**
Grade Level – 9th - 12th Grade
Credit – 1.0
Language A
Prerequisite – None

**ISLAMIC STUDIES A FOR ARABS (NATIVE)**
The main aim of Islamic Studies is to demonstrate the true Islamic aspects and its tolerance principles while studying Quran and Ahadeeth and enabling students to understand some of the topics related to faith, worshipping, and social nature of Islam. The completion of this course allows students to develop an awareness and understanding of what it means to live peacefully in the world among Muslims and other members of the community. A focus on Islamic history, which encourages students to feel pride in Islamic identification.

**Course Requirements:**
Grade Level – 9th - 12th Grade
Credit – 0.5
Prerequisite – None

**UAE SOCIAL STUDIES (NATIVE/NON-NATIVE)**
Preparing students for the 21st century cannot be accomplished without a strong emphasis on social studies. Social studies provide cornerstone skills that are the key to opening doors for a more diverse, competitive workforce and responsible citizenry. Students use critical thinking, self-assessment, reasoning, problem-solving, collaboration, research, and investigation to make connections in new and innovative ways as they progress through social studies education. These standards outline the knowledge and skills needed to help young people develop the ability to make informed and reasoned decisions for the public good as citizens of a culturally diverse, democratic society in an interdependent world. UAE Social Studies Standards lay out a vision of these vitally important disciplines and describe what all students should know and be able to do at each grade level. UAE Social Studies is based on a set of competencies starting with "the end in mind." The UAE Social Studies medley courses are taken by all 9th grade students. The UAE Social Studies Medley Course is a one-year course that provides an overview of foundational topics in Geography, Civics, and History. The subjects are taught in an integrated format so that students understand the interconnectedness of social science and the real world. The focus is on kinesthetic and higher-level thinking activities. These courses are prerequisite courses to further study in Social Studies grades 10 to 12.
**Instructional Methods:** Live lesson discussion, presentations, reports, essays, diagrams, graphs, charts, tables, vocabulary quizzes, critical thinking, problem solving, use of technology and instructional resources, comparing and contrasting, research, action plans.

**Course Requirements:**
Grade Level – 9th - 12th Grade
Credit – 0.5
Prerequisite – None

**MORAL, CULTURAL AND SOCIAL EDUCATION**
Moral Education is designed to help students understand what it means to live with purpose, integrity, and a strong sense of responsibility toward others in an increasingly complex and connected world. Through the exploration of local and global moral issues, students are encouraged to broaden their ethical awareness and move from simply understanding what happens around them to considering how they can make a positive difference. Throughout the year, students examine values related to character and morality, relationships between individuals and communities, cultural and historical identity, and the responsibilities of active citizenship. The program develops students' skills in reflection, respectful dialogue, decision-making, and purposeful action. It also encourages them to become thoughtful, creative, forward-looking, and respectful individuals with a strong understanding of ethics, tolerance, civic responsibility, and cultural diversity. The curriculum content has four main objectives to prepare students for their adult life: **Build Character Traits -** Includes resilience, perseverance, work ethic, critical thinking, and discipline.
**Instill Ethical Outlook -** Teach students the practical and ethical values that are represented in the ethos of the course which include tolerance, honesty, dignity, respect, and humility. **Foster Community -** Encourage and enable students to become engaged members of the community. **Endear Culture -** Teach students about culture, both UAE and of the wider world community and enable them to value the wealth of culture available around the world.

**Instructional Methods:** A variety of instructional methods including live lesson discussion, presentations, essays, vocabulary quizzes, critical thinking, problem solving, use of technology and instructional resources.
**Course Requirements:**
Grade Level – 9th - 12th Grade*
Integrated
Prerequisite – None

# HIGH SCHOOL COURSE LIST 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

## AP ENGLISH
AP ENGLISH LANGUAGE & COMPOSITION - A & B

## MATHEMATICS
ALGEBRA 1 - A & B
ALGEBRA 2 - A & B
GEOMETRY - A & B
INTEGRATED MATH 1 - A & B
INTEGRATED MATH 2 - A & B
INTEGRATED MATH 3 - A & B
PRE - CALCULUS - A & B
HONORS ALGEBRA 1 - A & B
HONORS ALGEBRA 2 - A & B
HONORS GEOMETRY - A & B

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

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

## AP SCIENCE
AP BIOLOGY - A & B
AP CHEMISTRY - A & B
AP ENVIRONMENTAL SCIENCE - A & B
AP 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

## AP HISTORY
AP GOVERNMENT & POLITICS*
AP MACROECONOMICS*
AP MICROECONOMICS*
AP U.S. HISTORY - A & B
AP 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 WORLD LANGUAGES
AP SPANISH LANGUAGE & CULTURE

## ELECTIVES
ART HISTORY*
ASTRONOMY*
CREATIVE WRITING*
CONCEPTS OF ENGINEERING*
EARLY CHILDHOOD - A & B
LIFE SKILLS*
MARINE SCIENCE*
MUSIC APPRECIATION*
PALEONTOLOGY*
PRINCIPLES OF BUSINESS, MARKETING & FINANCE I - A & B
PSYCHOLOGY - A & B
SOCIOLOGY*
THEATER, CINEMA & FILM PRODUCTION*
WORKPLACE AND INTERNSHIP READINESS*

## 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 *
ROBOTICS - A & B
SPORTS AND ENTERTAINMENT MARKETING *
VETERINARY SCIENCE *

## HEALTH & P.E.

HS HEALTH - A & B
PHYSICAL EDUCATION - A & B

## KHDA COURSES (UAE STUDENTS ONLY/ GRADE DEPENDENT)

NON-NATIVE MORAL & SOCIAL STUDIES
NATIVE UAE SOCIAL 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 prerequisites prior to selecting courses and electives.

# APPENDIX A

### AP English Language & Composition
### SEM A

It is recommended that students purchase a test preparation book to work on independently. The recommended preparation book is **Princeton Review AP English Language & Composition Premium Prep, 19th Edition**

Choose one of the following:

- Zen in the Art of Writing by Ray Bradbury
- On Writing Well by William Zinsser

### SEM B

**Contemporary Edition:** See the lesson entitled The Memoir for an overview of text choices:

- **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

**Student Edition:** See the Checklist lesson for an overview of text choices:

- 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. Students are told, *"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 CALCULUS AB

Textbook: Study Forge

### AP CALCULUS BC

Textbook: Study Forge

### AP BIOLOGY A & B

Achieve for Biology for the AP Course Edition 1
**Please note this text must be purchased separately as an e-textbook. Your teacher will provide instructions during the first week of the course.*

### AP PHYSICS - A & B

College Physics: College Physics: A Strategic Approach 4th Edition
**Please note this text must be purchased separately as an e-textbook. Your teacher will provide instructions during the first week of the course.*

### AP CHEMISTRY A & B

Chemistry, Jason Overby. 15th Edition,
©2025 (Digital)
ISBN-10: 1265353077
ISBN-13: 978-1265353070

### AP U.S. HISTORY A & B

Give Me Liberty! An American History Brief-7th Edition; Foner, E., DuVal, K., & McGirr, L; 2023; W.W. Norton.
**Please note this text must be purchased separately as an e-textbook. Your teacher will provide instructions during the first week of the course.*

### AP SPANISH LANGUAGE AND CULTURE A & B

**Semester A:**
La Casa en Mango Street by Sandra Cisneros
ISBN: 1644734281
**Semester B:**
Senderos fronterizos by Francisco Jimenez
ISBN: 0618226184
Cajas de cartón by Francisco Jimenez
ISBN: 0618226168

### AP GOVERNMENT & POLITICS*

We the People: An Introduction to American Politics, 14th Essentials Edition
**Please note this text must be purchased separately as an e-textbook. Your teacher will provide instructions during the first week of the course.*

### AP US History*

Give Me Liberty: An American History Brief 7th High School Edition
**Please note this text must be purchased separately as an e-textbook. Your teacher will provide instructions during the first week of the course.*

### AP WORLD HISTORY A & B

Ways of the World for the AP World History Modern Course

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