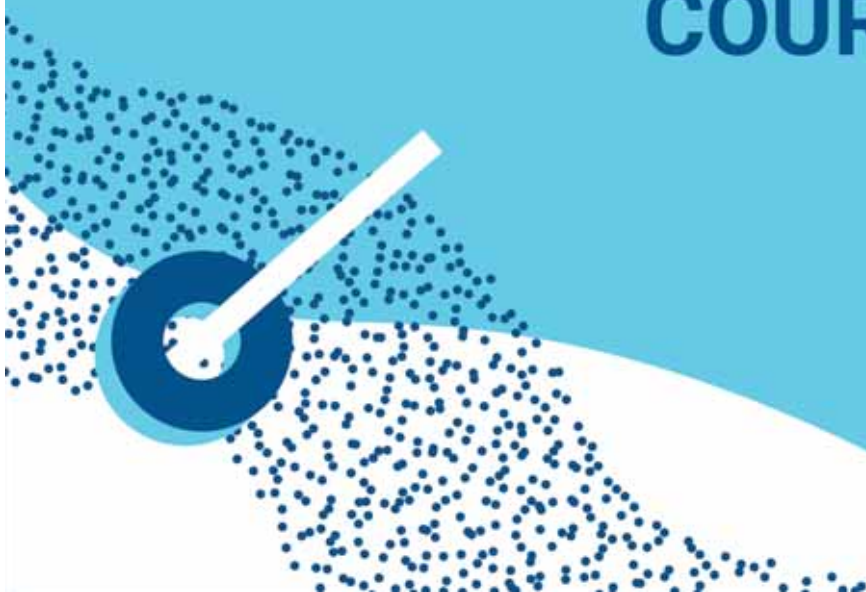




2020 - 2021

# COURSE CATALOG

KG - 12



**iCADEMY**  
MIDDLE EAST

The American Online School

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# LOWER SCHOOL

# K-5

## LANGUAGE ARTS

### LANGUAGE ARTS KG

The Kindergarten Language Arts course will teach students to identify and write letters, produce letter sounds, and frequently used phonograms. Students will also master weekly sight words and reading and comprehension strategies to grow as readers. For the first 26 weeks, the assignments are built around a letter of the alphabet, beginning with the most frequently used letters in words. Beginning in Week 27, the most commonly used phonograms are introduced, one each week. Phonemic awareness and phonics are learned through videos, interactives, hands-on activities, and written assignments. All Common Core K LA standards are met in this course. Students who have already mastered identifying and writing letters, basic English sight words and basic phonograms should enroll in Language Arts 1.

#### Course Requirements

Grade Level - Kindergarten  
Duration - 2 Semesters  
\*Materials listed in Appendix A.

### LANGUAGE ARTS 1

The First Grade Language Arts course will teach students to identify and write letters, produce letter sounds and frequently used phonograms. Students will also master weekly sight words and reading and comprehension strategies to grow as readers. There are written assignments which will integrate handwriting, story elements, sight words, phonics, and other Language Arts topics. Students will read and retell stories about animals, weather, and fictional characters. The course also includes weekly written assignments that students will use as practice, audio recordings to strengthen fluency, spelling tests and online reading comprehension quizzes to inform parents and the student of progress being made. Also included are benchmark assessments and synchronous phonics & sight words assessments. We use an independent reading program, which will allow students to read at their own pace and level suited to their current skills. All Common Core 1 LA standards are met in this course.

#### Course Requirements

Grade Level - Kindergarten - 1st Grade  
Duration - 2 Semesters  
\*Materials listed in Appendix A.

### LANGUAGE ARTS 2

The 2nd Grade Language Arts course will teach students to spell and write vocabulary, read more fluently, apply grammar concepts, and participate in handwriting and writing activities through thematic units. Students will read and write about topics such as family, animals, cooking, and the seasons. They will continue to master weekly sight words and reading and comprehension strategies to grow as readers. The course also includes weekly written assignments that students will use as practice, audio recordings to strengthen fluency, spelling tests and online reading comprehension quizzes to inform parents and the student of progress being made. Also included are benchmark assessments and synchronous phonics & sight words assessments. We use an independent reading program, which will allow students to read at their own pace and level suited to their current skills. All Common Core 2 LA standards are met in this course.

#### Course Requirements

Grade Level - 2nd Grade  
Duration - 2 Semesters  
\*Materials listed in Appendix A.

### LANGUAGE ARTS 2

The Third Grade Language Arts course will teach students reading comprehension skill and strategies to help them become stronger readers. Students will also master weekly spelling and vocabulary words and grammar concepts that will help them grow as writers. They will read and write a personal narrative, understand biography, learn to create a Venn diagram, compare and contrast city and rural life, and explore cause and effect. The main reading selections take many formats such as articles, realistic fiction, fables, and poetry. Fluency ties into the reading as students record themselves reading small excerpts from the weekly selection. Every three weeks a companion text is included. This relates to the main selection but follows a different format, allowing students to compare and contrast two texts. Students also complete a paragraph edit each week where they are asked to identify the grammatical errors in a piece of writing. They are led through the writing process by first seeing an example of the type of writing, prewriting, writing a rough draft, revising and editing, and publishing. Students also record themselves presenting their writing orally every three weeks. Cursive handwriting, journal entries, and independent reading are also part of a student's weekly work. All Common Core Third Grade LA standards are met in this course.

## Course Requirements

Grade Level - 3rd Grade

Duration - 2 Semesters

\*Materials listed in Appendix A.

## LANGUAGE ARTS 4

### Semester A

The 4th grade Language Arts curriculum integrates reading, writing, speaking, listening, and the study of vocabulary and grammar in a way that engages today's learners and supports them in building a broad and diverse set of literacy skills. Students study classic literature as well as more contemporary forms, including media and multimedia products. Writing assignments in semester A focus on narrative and persuasive modes and emphasize the use of reasoning and details to support opinions. Each writing assignment spans several lessons and guides students through a writing process that begins with prewriting and ends by emphasizing one or more aspects of conventions of standard written English. Students also learn how to participate in collaborative discussion and peer review sessions.

In each lesson, engaging and relevant models and step-by-step instruction guide students toward mastery and appreciation of 21st century communication in all its forms and functions.

### Semester B

Like semester A, semester B provides an integrated curriculum. Whereas the first semester focuses on skills needed to read fiction and other literary prose, semester B teaches specific skills for reading poetry, drama, informational text. Students learn how informational text differs from literary text and how different forms of information text differ from each other. Writing assignments emphasize expository writing and guide students through research projects. Near the end of the semester, students learn how to present information orally and using multimedia.

### Course Requirements

Grade Level - 4th Grade

Duration - 2 Semesters

\*Materials and Reading list detailed in Appendix A.

## LANGUAGE ARTS 5

### Semester A

The 5th grade Language Arts curriculum integrates reading, writing, speaking, listening, and the study of vocabulary and grammar in a way that engages today's learners and supports them in building a broad and diverse set of literacy skills. Students study classic literature as well as more contemporary forms, including media and multimedia products. Writing assignments in semester A focus on narrative and persuasive modes and emphasize the use of reasoning and details to support opinions. Each writing assignment spans several lessons and guides students through a writing process that begins with prewriting and ends by emphasizing one or more aspects of conventions of standard written English. Students also learn how to participate in collaborative discussion and peer review sessions. In each lesson, engaging and relevant models and step-by-step instruction guide students toward mastery and

appreciation of 21st century communication in all its forms and functions.

### Semester B

Like semester A, semester B provides an integrated curriculum. Whereas the first semester focuses on skills needed to literary text, semester B focuses on skills for reading and analyzing informational text. In the second semester of the course, students learn how informational text differs from literary text and how different forms of information text differ from each other. Writing assignments emphasize expository writing and guide students through research projects. Near the end of the semester, students learn how to present information orally and using multimedia.

### Course Requirements

Grade Level - 5th Grade

Duration - 2 Semesters

\*Materials and Reading list detailed in Appendix A.

## MATH

### MATH K

#### Semester A

During the first semester students will learn foundational math facts. They will learn to count to 12, how to compare sizes, ordinal numbers putting items in order, what a number line is and its uses, basic measurements such as inches and feet, and how to tell time on digital and analog clocks. Students will have many opportunities to practice these new concepts by interacting with online confirmation exercises and filling out worksheets offline. A special emphasis this semester is for students to have fun with numbers, finding success with concepts such as bigger and smaller and being comfortable in an online environment.

#### Semester B

Students will learn to count to twenty. They work with comparing objects using the terms tall, longer, and shorter as well as comparing two objects using the terms lighter and heavier. They will continue their exploration of basic geometric shapes such as cones and spheres. They will work with the concept of first, middle, and last. Arranging and sorting receive special emphasis this semester. Students will also work on writing numbers with 3, 4, and 5 given special attention. Students will learn the concepts of left and right. Coins are also a focus as students will count pennies, nickels and dimes. Finally, the number 7 is studied using the colors of the rainbow. Projects include making paper fingers and thumbs and creating designs with them.

Students who have already mastered identifying, writing and basic computation with numbers 1-20 should enroll in Math 1.

### Course Requirements

Grade Level - Kindergarten

Duration - 2 Semesters

\*Materials listed in Appendix A.

## MATH 1

### Semester A

During the first semester students will build fluency with basic math facts. They will learn to count to 100, basic addition and subtraction facts, and how to add double-digit numbers. Students will be introduced to such new concepts as word problems, Venn diagrams, and basic geometric concepts. There is an emphasis on learning practical skills such as reading thermometers, looking at maps, and understanding the value of coins. Students will have multiple opportunities to practice new skills and knowledge through using integrated online practice problems.

### Semester B

During the second semester students will begin counting by twos, fives, and tens. They will learn both vertical addition and subtraction. Students are introduced to multiplication and division and the signs used in those operations. They will also study even and odd numbers. Students continue their exploration of geometric shapes through drawing and apply what they learn about shapes by sorting various figures in Venn diagrams. They will also use a balance beam to understand the concept of weight – lighter versus heavier. As in semester A, students will have multiple opportunities to practice new skills and knowledge through using integrated online practice problems.

### Course Requirements

Grade Level - Kindergarten - 1st Grade

Duration - 2 Semesters

\*Materials listed in Appendix A.

## MATH 2

### Semester A

During the first semester students will build fluency with basic math facts and add and subtract within 100 to solve word problems using strategic methods. Students will also manipulate numbers to 1000 using knowledge of hundreds, tens, and ones. Lastly, students will demonstrate arrays with repeated addition.

### Semester B

During the second semester students will use place value to add and subtract up to 1000. They will use place value to estimate and solve word problems to demonstrate skills. Students will measure and compare length and represent it on a number line. They will work with money and time to compare value. Students will collect data and represented on graphs to discuss it. They will recognize common 2 dimensional and 3 dimensional shapes by specific characteristics.

### Course Requirements

Grade Level - 2nd Grade

Duration - 2 Semesters

\*Materials listed in Appendix A.

## MATH 3

### Semester A

During the first semester, students will build flexibility with numbers as they master addition and subtraction facts as well as multiplication and division facts. Students

will understand relationships between addition and subtraction, multiplication and addition and multiplication and division as they learn to borrow, carry, and regroup in order to find sums and differences of two whole numbers up to 10,000. Students will also comprehend the place value of base ten numbers up to 1,000,000 in order to find patterns and make estimations. They will implement a 4-step approach to solving problems and express numbers differently including translating them into Roman Numerals or expressing them as ordinal numbers.

### Semester B

During the second semester, students will explore concepts of measurement including linear measurement, weight, volume, temperature, and time. They will also recognize, compare, and convert fractions. Students will write amounts of money and make change using as few coins as possible. Lastly, students will examine lines, polygons, and solid figures as they are introduced to basic concepts of geometry.

### Course Requirements

Grade Level - 3rd Grade

Duration - 2 Semesters

\*Materials listed in Appendix A.

## MATH 4

### Semester A

Grade 4 Math uses a varied amount of instructional material to reinforce and teach new math skills to learners. Instruction includes creative videos, mathematical storytelling, practical math applications and repetition to reinforce skills throughout the course. Three areas are focused on and students will finish the course with a strong knowledge in these content areas. The first is developing an understanding and fluency with multi-digit multiplication and developing the understanding of dividing to find quotients involving multi-digit dividends. The second is developing an understanding of fraction equivalence, addition and subtraction of fractions with like denominators, and multiplication of fractions with whole numbers. The third will be addressed in Semester B

### Semester B

Semester B of Grade 4 Math has learners continuing to work with fractions. They will learn to multiply fractions and convert them to decimals. Students will also begin to learn to equivalent measurements of length, weight, mass, and capacity. They will also learn helpful skills in understanding time, distance, and money. Students will develop an understanding that geometric figures can be analyzed and classified based on their properties, such as having parallel sides, perpendicular sides, particular angle measures, and symmetry. Lessons on rectangles, line plots, angles, figure drawing, polygons, and symmetry will be taught. Semester B continues to use varied forms of instruction that allow students to learn these skills in a practical manner.

### Course Requirements

Grade Level - 4th Grade

Duration - 2 Semesters

\*Materials and Reading list in Appendix A.

## MATH 5

### Semester A

Grade 5 Math uses a variety of instructional material to reinforce and teach new math skills to students. Instruction includes creative videos, practical math applications and repetition to reinforce skills throughout the course. Students will work with order of operations and use a variety of strategies to translate words to math—and math to words-- in problem solving. Concepts will include sequences and ordered pairs, patterns and graphs, prime numbers and composite numbers. They will multiply and divide decimals by powers of ten and continue to develop skills and strategies for multiplication with multi-digit numbers, and for division with one and two-digit quotients. Students will continue to work with fractions, adding and subtracting mixed numbers with like and unlike denominators. Learners will work with money as decimals to solve real-world problems and will be introduced to budgeting.

### Semester B

Begins with students continuing to work with fractions. The first lesson focuses on ratios and challenges students to solve word problems using fractions and ratios in practical life situations. Learners continue to strengthen their math skills by studying mixed and fraction products, and fraction application, models, and division. Students will develop concepts in measurement of length, weight, and volume. They will find perimeter by adding fractions and mixed numbers using real-life examples. Learners will end the course with a focus on geometry. Varied types of instruction are used to enhance their learning, including video and real-life applications, activities, and creative projects.

### Course Requirements

Grade Level - 5th Grade

Duration - 2 Semesters

\*Materials listed in Appendix A.

## SCIENCE

### SCIENCE K

#### Semester A

In Kindergarten Science, students will use their senses to explore their world. Students experience nature walks, gardening, and imitative games by exploring varying concepts. They will learn about animal habitats, the seasons, and how plants grow. Students will assemble and plant a terrarium, plant and care for a seed, and make observations about animal behavior. They will compare and demonstrate knowledge of different environments.

#### Semester B

Students in this course will continue to expand their knowledge and understanding of the world around them. They will learn about the constellations, clouds, and rainbows and expand their knowledge of the natural world through observation. Students will learn about animal tracks, pollination and plant growth among other topics.

### Course Requirements

Grade Level - Kindergarten

Duration - 2 Semesters

\*Materials listed in Appendix A.

### SCIENCE 1

#### Semester A

In First Grade Science, students will complete projects that are designed to allow for exploration and discovery. Students observe their surroundings and through observations of the natural world conduct inquiries into topics related to their healthy development. Topics covered include animal adaptation, erosion, and observing nature. Students will compare and classify different types of trees and leaves, understand hibernation, and create a weather chart among other activities.

#### Semester B

Students will continue their exploration of the natural world, learning about the states of matter and the process of scientific inquiry. They will plant and nurture a tomato, read a thermometer, and learn more about thunder and lightning. Students will continue to learn about animal behavior and will observe birds and pond life.

### Course Requirements

Grade Level - 1st Grade

Duration - 2 Semesters

\*Materials listed in Appendix A.

### SCIENCE 2

#### Semester A

Second Grade Science introduces students to the process of observation and how important it is to the study of science. Learners will identify their five senses and why they are critical to observation. Students will use these observation skills throughout the course as they examine many different types of animals and their environments. Students begin by observing ants in their own environments and continue onto learning the different types of birds. Students will come to understand plant and animal rhythms and will perform small experiments with plants. Stories will be used to teach the students about nature and interactions that humans have with nature. They will continue to learn about animals and their characteristics habitats, and needs. Students will learn through video, audio stories, hands-on participation and observation with nature. The teachers will conduct live assessments for the topics that had been covered throughout the week's lessons. Grade 2 Science provides students with the opportunity to expand their minds and see for themselves the way that animals and nature are a part of their every day lives.

#### Semester B

Semester B of Second Grade Science begins with the students learning the characteristics of the Weaverbird and Swiftlet bird. Learners will come to understand the different groupings of animals including those with vertebrates, invertebrates and warm-and cold-blooded animals, carnivores, herbivores and omnivores. Learners will be asked to recall the five senses that they discussed

at the beginning of the course and compare them to the senses of animals. They will also learn how animals communicate and the relationship between animals and humans. The course ends with the students taking a closer look at the characteristics of reptiles, insects, birds of prey, and fish. At the close of the course students will have a deeper understanding and appreciation of animals and their habitats.

### Course Requirements

Grade Level - 2nd Grade

Duration - 2 Semesters

\*Materials listed in Appendix A.

## SCIENCE 3

### Semester A

Third Grade Science introduces students to experimentation as they journey through the earth and its many miracles. They will begin by learning about the earth, the sun and the moon. By participating in simple experiments students will explore the water cycle, gravity, the weather and its patterns, various types of terrain, and the role of plants in the production of oxygen and their importance to human survival. Learners will expand their knowledge through video, pictures, short readings, projects, and hands on experiments. Learners will understand that experiments require the use of instruments, observation, recording, and drawing evidence-based conclusions. Grade 3 science provides students with the opportunity to expand their minds and see for themselves the way that science is a part of their everyday lives.

### Semester B

Semester B of Third Grade Science begins with the students writing a poem about the seasonal cycles. The learners continue with root formation, the interdependence of plants and humans, biomes of land and sea, extreme weather, rocks, vertebrates and invertebrates, as well as extinction. All of these lessons are taught using video, projects, and experimentation. Semester B asks learners to look a bit deeper into things they encounter such as the ocean and weather.

### Course Requirements

Grade Level - 3rd Grade

Duration - 2 Semesters

\*Materials listed in Appendix A.

## SCIENCE 4

### Semester A

Grade 4 Science includes the three main domains of science which are physical, life, and earth and space science. Learners will use various kinds of experimenting, including field studies, systematic observations, models, and controlled experiences. The course begins with the explanation of the scientific method which the students continue to use and build upon throughout the course. The big picture of the earth is examined as students review the life on planet earth, salt and fresh water, and fast and slow changes that occur on the planet. Students go beyond planet earth, though, as they study galaxies, the solar system and other planets. Students examine the ways in which forces and motion can be measured and the concept that a single kind of matter can exist as a

solid, liquid or gas. Grade 4 Science uses many modes of instruction including video presentations, enrichment activities, and hands-on experimentation.

### Semester B

Semester B of Grade 4 Science focuses on the relationship between heat, light, sound, and electrical energy and the way they can be transferred between each other. Learners distinguish between natural objects and objects made by humans as they examine technology and the role it plays in science. Students also look at life cycles of animals, plants, and humans and how they interact with each other. The course ends by looking at the ways that humans interact with the environment. Students will use research skills, watch videos, and get their hands dirty in order to learn broader lessons that have to do with helping the environment.

### Course Requirements

Grade Level - 4th Grade

Duration - 2 Semesters

\*Materials and Reading list detailed in Appendix A.

## SCIENCE 5

### Semester A

Grade 5 Science continues to build on the science skills that have been obtained in years previous. There will be an emphasis on earth and space science, life science, and physical science. Students will begin the course by focusing on earth and space science by looking at the solar system and planets. Students will come to an understanding of the concept of the earth as a sphere and the earth's place in the solar system. The course continues with a focus on physical science and the different tools that can measure force, time, and distance. They will also grow in their understanding of how light and sound travel and interact with each other as well as the different types of energy. The semester concludes with a look into life science and the ways that organisms are interconnected. Instruction will include real life application, hands-on projects and assessments, and video and short research projects.

### Semester B

Semester B puts great emphasis on life science and begins by focusing on the many ecosystems of the earth and the way that all parts of ecosystems depend on each other. Students will learn the different types of ecosystems that exist. They will learn that ecosystems change and how the changes affect their ability to support their populations. Learners will examine plants; that they have different structures and how those structures allow them to respond to different needs. Students will also grow in their understanding of the importance of good nutrition to all living organisms. The course concludes with a look into the scientific process and the importance of investigations and conclusions in the study of science. Instruction will include real life application, hands-on projects and assessments, and video and short research projects.

### Course Requirements

Grade Level - 5th Grade

Duration - 2 Semesters

\*Materials and Reading list in Appendix A.

# SOCIAL STUDIES

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## SOCIAL STUDIES K

### Semester A

This course introduces students to their place in the community and the responsibilities of being a member of society. Great figures of U.S. history such as Pocahontas, George Washington and Abraham Lincoln are a focus of learning in this semester. Students will also learn about everyday heroes, the responsibilities of pet ownership, the importance of rules, table manners, and eating well. Students will practice the skill of retelling stories by recording audio, retelling the stories orally, or writing their observations. They will learn how to use details and basics of narratives. Projects will help students think about what pets need and defining emotions.

### Semester B

In the second semester students are introduced to map reading skills. They will be taught to read maps of the U.S. and the world. From learning about location to how water is represented to floor plans, students are introduced to map skills that will last a lifetime. Students will also learn about symbols of the U.S. such as the American flag and the eagle. From there students learn about holiday, with a particular focus on Thanksgiving. Another focus is on currency. Learners will be introduced to what money is, how money can be spent, the power of buying locally, and the difference between wants and needs.

### Course Requirements

Grade Level - Kindergarten

Duration - 2 Semesters

\*Materials listed in Appendix A.

## SOCIAL STUDIES 1

### Semester A

In this semester, students begin to explore basic fundamentals of social studies including map skills, cardinal directions, and will begin to examine maps of the U.S. and the globe. Students will also be introduced to important figures from American history.

A skill that students will practice throughout the semester is retelling stories. Students may do this by recording audio, retelling the stories orally, or writing their observations. They will learn how to use details and basics of narratives. Students will also make maps of their homes, neighborhoods, as well as a personal timeline.

### Semester B

The second semester has a focus on introductory economics. They will study bartering, goods and services, jobs in the community, and how the marketplace works. Another focus is on positive character traits such as honesty, what the aspects of personal responsibility are, and how to help and respect others. Historic figures such as Clara Barton and characters from fiction and folklore are used as models for teaching positive traits. Students will continue practicing their five-finger retelling skill with assignments on Martin Alonso and George Washington. Projects will help students think about thoughtful words, showing respect, and being honest. Learners will write, draw, and perform in these projects.

## Course Requirements

Grade Level - 1st Grade

Duration - 2 Semesters

\*Materials listed in Appendix A.

## SOCIAL STUDIES 2

### Semester A

In second grade, students in this course will begin to explore the basic fundamentals of social studies including culture, geography, and economics. Students will explore the Ancient Cultures of China, Africa, and the Celts. Students will explore these cultures through ancient folk tales and fables. Learners will create a photo book that describes the significant events in their own life. They will also examine the importance of geography and direction. Students will learn how to locate boundaries while using a world map. Students will identify the places that were discussed in the previous lessons including Africa, China, and the British Isles. They will develop a rudimentary understanding of map symbols as they locate continents, the equator, and oceans. Students will also learn to identify on a road map where they live, rivers, mountain ranges and lakes nearby their homes. Learners will follow a step-by-step approach for successfully completing each lesson, which includes storytelling, repetition, projects, arts and crafts, and videos.

### Semester B

The second semester begins by introducing learners to economics and the role that money plays in every civilization. They will take a closer look at the economy of the Celtic people. Students learn the difference between natural, human, and capital resources. Learners will begin to understand the exchange of money for goods and services. They will gain a basic understanding of what scarcity is and why it is good that we do not always get everything that we want. Students will understand these concepts by drawing upon their understanding of the desires/wishes in their own lives. Students will also learn about desirable human qualities through the use of fables such as "The Boy Who Cried Wolf." Learners will look at individuals who have made a difference in the greater community such as Rosa Parks and Susan B. Anthony. The end of the course asks learners to examine the diversity of the community they live in. Students should gain an appreciation for the differences around them, and how having respect for others will contribute to society as a whole.

### Course Requirements

Grade Level - 2nd Grade

Duration - 2 Semesters

\*Materials listed in Appendix A.

## SOCIAL STUDIES 3

### Semester A

In third grade, social studies students will begin to explore the basic fundamentals of social studies including geography, civics, and economics. Learners will begin by looking at the beginning of civilization and examining the ancient Hebrew civilization, the Phoenicians, and the Kush tribe of ancient Africa. They will then move on to examining the Native American tribes of the Cherokee, Sioux, and Hopi.



Students will also look at the first explorers of the Americas and learn about the beginning of the United States. In the first semester students will learn important geographical factors in the ancient civilizations, Native American tribes and in the developing United States. Students will increase their skills by creating maps and looking at the landscapes. They will take a close look at their own personal heritage by mapping their ancestry. Learners will follow a step-by-step approach for successfully completing each lesson, which includes storytelling, repetition, projects, arts and crafts, and videos.

### **Semester B**

The second semester begins with introducing learners to economics and the role that money plays in every civilization. Students learn the difference between natural, human, and capital resources. They also examine the production of goods, trade, specialization, and interdependence, and come to understand the importance that each individual plays in a society's economy. Learners are introduced to Civics by discussing the governmental structure of the Ancient Hebrews and Phoenicians. The purpose and importance of laws and how they are enacted as well as the establishment of government are shown through stories of the Ancient Phoenicians and Native Americans. The course ends by discussing the purpose and nature of government as it relates to the United States. Students will continue practicing their five-finger retelling skill with assignments on Martin Alonso and George Washington. Projects will help students think about thoughtful words, showing respect, and being honest. Learners will write, draw, and perform in these projects.

### **Course Requirements**

Grade Level - 3rd Grade

Duration - 2 Semesters

\*Materials listed in Appendix A.

## **SOCIAL STUDIES 4**

### **Semester A**

In grade 4 Social Studies learners will use their understanding of social studies skills to explore their local states and communities. They will begin the course by learning the topography of their particular area. Students will do this by creating a detailed landscape model. This project will be hands-on and require students to do research of their communities. Learners will also research local animals and gain an understanding of local Native American ground in their part of the country. This course walks students through the research and report writing steps that will be vital to their continuation of social studies. They will continue to focus on their individual states as they do projects based on local geography, state capitols, as well as nearby natural wonders and landforms. The semester concludes with an introduction to Colonial history. The course uses video, enrichment activities, and project-based learning to enhance the student's social studies skills.

### **Semester B**

Semester B of grade 4 Social Studies picks up where semester A left off by looking further into frontier life of the early American settlers. Students examine the difficulties that early settlers faced when reaching America.

They apply knowledge of historical thinking, chronology, turning points, individuals, and themes of local and United States history in order to understand how history has shaped the present and will shape the future. They will continue the focus of local history by doing research projects on settlers from their particular states and on how their state became a part of the Union. The transition from the pony express to the transcontinental railroad is a major theme that shows how quickly the United States developed. Students end by creating a time capsule that demonstrates what was important to early settlers from their particular states.

### **Course Requirements**

Grade Level - 4th Grade

Duration - 2 Semesters

\*Materials and Reading list detailed in Appendix A.

## **SOCIAL STUDIES 5**

### **Semester A**

Grade 5 Social Studies combines the study of United States History through the Civil War with a geographical exploration of the United States and what it has to offer. Students will use their understanding of social studies skills and concepts as they study the development of the United States. The first semester begins with early settlements of North America and allows learners to take an in-depth look into what life was like for colonists and Native Americans. Students will come to understand the causes of the Revolutionary War and the people that played a significant role in it. The semester ends with students examining the new nation and what life was like for European immigrants and those on the frontier. Students will learn through the use of video, journaling, and varied types of creative instruction.

### **Semester B**

Semester B begins with an exploration of the west and what life was like for those looking to find gold. Learners will then look at slavery and what led to the Civil War. The course then takes a departure from American history and takes a more in-depth look into cultures, people, and the geography of the United States from past to present. Learners will have the opportunity to explore the country region by region and come to appreciate all that it has to offer. Students will conclude the course by planning and describing a trip they would like to take to a particular place within the United States. Students will take a hands-on approach as they get to know the geography, climate and culture of their country. Video, creative projects involving technology, journaling, and varied assessments will be used throughout the course.

### **Course Requirements**

Grade Level - 5th Grade

Duration - 2 Semesters

\*Materials listed in Appendix A.

# ELECTIVES

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## ARTS K

### Semester A

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

### Semester B

Emphasis in the second semester will be placed on applying what the students have learned to make more detailed works of art. This semester, students will be creating a bird feeder, making puppets, crafting paper flowers, making potpourri, a heart collage, constructing a wind chime, and pressing flowers.

### Course Requirements

Grade Level - Kindergarten

Duration - 2 Semesters

\*Materials listed in Appendix A.

## ARTS 1

### Semester A

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

### Semester B

Emphasis in the second semester students will be placed on applying what the students have learned to make more detailed works of art. In this semester students will be creating colorful calendars, stenciling, fashioning intricate flower drawings, revisiting symmetrical objects, and mixing colors. This course will provide students with opportunities to experience many different forms of arts and to express their imagination while learning valuable skills.

### Course Requirements

Grade Level - 1st Grade

Duration - 2 Semesters

\*Materials listed in Appendix A.

## ARTS 2

### Semester A

Art provides an opportunity for children to develop the use of their senses directly and encourages the student to further develop what they already know as a source of

knowledge and creativity. Children have a wonderful imagination that, if encouraged, will be needed though out their life. This course provides an opportunity for self-discipline through instruction and cooperation while providing the student with an opportunity for self-expression by using imaginative thinking for creative solutions. Learners will begin the course by creating a color wheel and understanding the difference between primary, secondary, and complimentary colors. Learners will use watercolors to create a value chart and begin to understand symmetry in art. At the end of the semester students will work with clay.

### Semester B

In semester B of Arts and Crafts, students will continue to explore their creativity while also learning ways that art can be functional and add to objects and materials that we use on an everyday basis. Students will begin the semester by creating a 12-month calendar. The students will focus on new month each week. They will also be able to pick a different clay project each week from The Book of Nature Crafts and/or Clay Fun. Once students have completed the calendar project they will begin to work on form drawing and make a seasonal chart using objects familiar with each of the four seasons. The course concludes with students working with wet crayons and wet paper. This course will provide students with opportunities to experience many different forms of arts and to express their imagination while learning valuable skills.

### Course Requirements

Grade Level - 2nd Grade

Duration - 2 Semesters

\*Materials listed in Appendix A.

## ARTS 3

The Art program provides an opportunity for children to develop the use of their senses directly. Art offers students the opportunity to experience a connection between the verbal and visual; logic and emotions; imagination and reality. The student is guided and encouraged to express feelings and emotions in his or her drawings and with color, while promoting self-esteem and self-awareness. Students are introduced to artistic expressions and techniques from cultures around the world. Modern technology provides opportunities for the student to observe this history. Students in Art 3 will work with elements of color in various art forms; observe and use detail in artistic expression; combine art forms and discover the effects of light.

### Course Requirements

Grade Level - 3rd Grade

Duration - 1 Semester

\*Materials listed in Appendix A.

## ARTS 4

The Art program provides an opportunity for children to develop the use of their senses directly. Art offers students the opportunity to experience a connection between the verbal and visual; logic and emotions; imagination and reality. The student is guided and encouraged to express feelings and emotions in his or her drawings and with color, while promoting self-esteem and self-awareness. Students are introduced to artistic

expressions and techniques from cultures around the world. Modern technology provides opportunities for the student to observe this history. Students in Art 4 will learn and practice the importance of composition and rhythm in artwork; use art as self-expression to convey ideas and personal experiences, and experience the influences of other cultures and master artists.

### Course Requirements

Grade Level - 4th Grade

Duration - 1 Semester

\*Materials listed in Appendix A.

## MUSIC

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### ELEMENTARY MUSIC - RECORDERS LEVEL-1

This course combines music and performing arts. Students will experience and learn new songs and perform them using self-expression and physical movement. In addition, the student will begin learning how to play the recorder.

### Course Requirements

Grade Level - Kindergarten - 3rd Grade

Duration - 1 Semester

\* Materials - Recorder

## HEALTH

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### HEALTH K-1

Elementary 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 nutrition, personal safety, health behaviors, communication, teamwork and basic human anatomy.

### Course Requirements

Grade Level - Kindergarten - 1st Grade

Duration - 2 Semester

\*Materials listed in Appendix A.

### HEALTH 2-3

Elementary 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 healthy behaviors, nutrition and fitness, disease prevention, social and mental health, injury 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 listed in Appendix A.

## 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 teaching students the basics of how computers think. This course 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

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### SPANISH GRADE 3-5

This introductory Spanish course provides a fun, interactive experience for a student's first exposure to the Spanish language. The content for each unit is based on an authentic story, myth or legend from various Spanish-speaking cultures. Although the course focuses principally on vocabulary acquisition, basic grammar principles are intuitively grasped through the story, games, activities, songs, and assessments. In addition, students learn to perform simple tasks in connection with each unit's theme. Students engage in language learning in a rewarding, low-stress environment; get comfortable with the sounds and rhythms of Spanish; learn simple Spanish phrases; begin to read, write, speak and listen for meaning in Spanish; and recognize distinctive practices and products of Spanish-speaking cultures.

### Course Requirements

Grade Level - 3rd - 5th Grade

Duration - 2 Semesters

\*Materials - None

LANGUAGE ARTS
Language Arts K A & B
Language Arts 1 A & B
Language Arts 2 A & B
Language Arts 3 A & B
Language Arts 4 A & B
Language Arts 5 A & B
MATHS
Math K A & B
Math 1 A & B
Math 2 A & B
Math 3 A & B
Math 4 A & B
Math 5 A & B
SCIENCE
Science K A & B
Science 1 A & B
Science 2 A & B
Science 3 A & B
Science 4 A & B
Science 5 A & B
SOCIAL STUDIES
Social Studies K A & B
Social Studies 1 A & B
Social Studies 2 A & B
Social Studies 3 A & B
Social Studies 4 A & B
Social Studies 5 A & B

ELECTIVES
Arts & Crafts K
Arts & Crafts - 1
Arts & Crafts - 2
Art Level - 3
Art Level - 4
Elementary Music - Recorders Level 1
Health K-1
Health 2-3
Keyboarding
Scratch Coding
ELECTIVES - WORLD LANGUAGES
Spanish 3-5
KHDA COURSES (UAE Students Only)
UAE Social Studies
UAE Moral Education
Islamic Studies (for students with Islam as their religion)
Native Arabic/ Non-Native Arabic



# MIDDLE SCHOOL

6–8

## LANGUAGE ARTS

### LANGUAGE ARTS 6

#### Semester A

English 6 is divided into two main categories: Storytelling and Heroes. Assignments include writing a narrative essay and completing a book report.

#### Semester B

Semester B of English 6 covers the main topics of Myth and Poetry. Student assignments include writing an original fairy tale and composing a poem.

#### Course Requirements

Grade Level - 6

Duration - 2 Semesters

\*Materials and Reading list detailed in Appendix A.

### LANGUAGE ARTS 7

#### Semester A

Through analysis of written, spoken, and multimedia texts, students will become more critical consumers of information and of various forms of media. They will also synthesize and organize ideas to prepare structured essays in several different modes, including narrative, persuasive, and expository. Each lesson will guide students in learning and applying specific strategies for reading and writing different types of texts. A review of basic English mechanics is included in many of the writing lessons, including discussions of the levels of formality required for different purposes and audiences. This course provides instruction in many modalities, including audiovisual presentations and videos, interactive activities, projects, and discussions. Opportunities for teacher feedback are frequent, detailed, and varied.

#### Semester B

The second semester of Language Arts 7 builds on the skills and concepts introduced in the first semester. Students tackle more difficult texts and themes in Semester B, and the level of analysis demonstrated and required is more in-depth. In this part of the course, students study the English language closely—both its history and evolution, and the less obvious ways it can be used to convey meaning. The reading assignments are selected to guide students in understanding how language can be used to convey broader themes in poetry, drama, and humorous or satirical texts. Students continue to develop their writing skills through multi-draft assignments and projects. Emphasis in this semester is on recognizing the multiple levels of meaning that any word or phrase might convey, and in writing one's own texts with these concepts in mind.

#### Course Requirements

Grade Level - 7

Duration - 2 Semesters

\* Reading list in Appendix A.

### LANGUAGE ARTS 8

#### Semester A

In this exciting course, students will master the subtle and complex art of the Standard American English writing style, allowing them to express their ideas more clearly and effectively than ever before. As students become experts on sentence structure, verb tenses and punctuation, they'll learn not only what the grammar rules are, but the logic behind them. Alongside this rigorous language instruction, students will analyze the poetry of legendary writers such as Seamus Heaney, Robert Frost, and Jane Kenyon. In addition, they will practice effective research techniques and prepare complete and polished reports and essays. Their work will also cover formal letter writing, biographical essays, and creating a bibliography. Students will use strategies such as the Sign and Design Mind and Clustering to help form their ideas and develop stories and arguments. Entertaining videos and diverse reading selections provide a wealth of information. Peer discussions and teacher feedback also contribute to help students learn the processes needed to become more effective writers.

#### Semester B

The purpose of this course is to build upon the skills presented in English 8A and enhance the focus and style of academic writing. Students continue to develop advanced traits of formal language through challenging activities and exercises that get at the heart of precise communication. Through careful study of parts of speech, verb forms, and sentence clauses, students will be prepared to write at the High School level without distracting errors that get in the way of self-expression. Students will complete six units of varying topics, comprised of five lessons each. Besides grammar instruction, each unit encourages a love of literature with captivating and age-appropriate novels and stories. Detailed Novel Study Guides challenge students to go beyond basics like plot and setting to really analyze and engage with literature. In addition, the student will outline, draft and revise a polished research paper, while learning the importance of avoiding plagiarism, citing sources, and organizing arguments. This ability to craft a strong thesis and prove it with evidence will equip students for creative and logical writing in high school and beyond.

#### Course Requirements

Grade Level - 8

Duration - 2 Semesters

\*Materials and Reading list detailed in Appendix A.

# MATH

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## MATH 6

### Semester A

Students begin the first semester of this course with a review of basic addition, subtraction, multiplication and division of whole numbers. More complex concepts are built on these basics. Students learn how to add, subtract multiply and divide integers, decimals and fractions. The course also includes lessons on ratios and proportions.

### Semester B

The second semester of Math 6 introduces students to the order of operations and how to use them in solving application problems. Building on these concepts, students are then introduced to the basics of algebra and algebraic expressions. Students then learn how to apply these problem-solving skills to percent and solving single and multiple step equations. An exploration of geometry, probability and statistics concludes the second semester.

### Course Requirements

Grade Level - 6  
Duration - 2 Semesters  
Materials - None

## MATH 7

### Semester A

In this first semester, students work with problem-solving skills, beginning algebra skills, geometry, decimals, fractions, data analysis, number theory and patterns, percent, and integer use. Projects measure the student's ability to integrate and apply the course objectives.

### Semester B

In this continuation of the first semester, students work with fractions; unit conversions; proportions and rates; percent; geometry topics including lines, angles, polygons, polyhedrons, perimeter, area, surface area, volume, and transformations; squares and square roots; permutations and combinations; and probability. Real-life application of concepts is emphasized in all units.

### Course Requirements

Grade Level - 7  
Duration - 2 Semesters  
Materials - None

## PRE - ALGEBRA 8

### Semester A

Pre-Algebra A will help students move from the world of simple mathematics to the exciting world of algebra and geometry. They will develop skills that will be necessary throughout their life. Students will stretch their thinking by learning to solve real world problems. Concepts are presented with a little humor, making the learning fun. Students will enjoy learning each new concept and develop a deeper understanding of the math skills they already have. Each concept is presented using examples of the skills, concepts, and strategies students will need. Scaffolding of ideas is provided to ensure student learning. The course is offered in a six-unit format containing 5 lessons each for a total of 30 lessons. Students will study text pages, watch videos, interact with

flash presentations, and complete practice problems. The pace is controlled by the student and reviewing the material is encouraged.

### Semester B

Building on what they have learned in mathematics and Pre-Algebra, students will expand their skills. They will be introduced to increasingly abstract concepts. Pre-Algebra B will provide the student with a concrete understanding of the basics for algebraic thinking. With numerous hands on activities and demonstration videos, they will have multiple opportunities to enhance their process solving skills. Students will be given different assessment opportunities to demonstrate mastery of each skill. The course is offered in a six-unit format containing 5 lessons each for a total of 30 lessons. Students will study text pages, watch videos, interact with flash presentations, and complete practice problems.

### Course Requirements

Grade Level - 8  
Duration - 2 Semesters  
Materials - None  
Prerequisites - Math 7

# SCIENCE

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## LIFE SCIENCE

### Semester A

Life Science is the study of cells, heredity, biological populations and their changes over time. It includes human biology, ecology, diversity of organisms and the history and nature of science. In this course, students will have the opportunity to conduct and design experiments, identify and classify organisms. Students in Semester A will learn more about the scientific method and how to conduct experiments. The interaction between the environment, ecology and biology is studied in detail. Students begin their exploration of the diversity of organisms as they learn how living things are grouped in the plant and animal kingdoms. They are introduced to much smaller organisms including protists, monera, fungi and viruses and then move on to cell structure and division. Green plants, invertebrates and vertebrates are explored. Students will work on developing skills in data recording, classifying, measuring, observing, hypothesizing, analyzing, evaluation and inferring.

### Semester B

In Semester B, students continue their exploration of the diversity of organisms as they learn about animal and human life cycles, heredity and genetics, and evolution. The complexity of our ecosystems is further explored along with environmental topics such as global warming, endangered species and extinction. Students move on to a study of the human digestive system and the importance of nutrition. Human anatomy including the endocrine, skeletal, circulatory and nervous systems are explored through a variety of projects and assignments.

### Course Requirements

Grade Level - 6  
Duration - 2 Semesters  
Material - Basic Kitchen Lab Supplies

## EARTH & SPACE SCIENCE

### Semester A

In the first semester students will learn about the scientific method and hone their understanding of using scientific measurements to Earth and Space Science. Also included are lessons on Earth maps and globes including detailed instruction on how to find specific locations using latitude and longitude.

Much of the first semester focuses on space science. Students will learn about Earth movements, seasons, the Moon, tides, solar and lunar eclipses, the Sun and its role as the main source of light and energy in the solar system. They will learn about planets, asteroids, meteors, comets and their orbits and how force gravity holds it all together. The course includes lessons on stars, constellations, nebula, the Milky Way and galaxies beyond our solar system.

There have been many recent discoveries in space science. Accordingly, careful attention has been given to presenting the most updated information available in areas of discovery such as stars with planets and the latest methods of detecting them as well as a look at NASA's most recent rover landing on the Martian surface.

### Semester B

In the second semester study zeros in closer to home: Earth Science. The coursework is uniquely integrated and applied to disciplines of study within the world of Earth Science. Starting with the Earth's interior students study rocks and minerals, volcanoes, earthquakes, undersea ridges, trenches and mountains and how the study of Earth's geologic history helps explain these phenomena. Students study weathering, soil and erosion on the Earth's surface as well as water in all its forms; the water cycle, oceans and ocean currents.

Above the Earth they will study the atmosphere: its composition, air pressure and air movement. This knowledge is then applied to lessons on how human populations are affected by natural resources, renewable and non-renewable, both on and inside the Earth. These lessons are integrated with discussion of how humans and living organisms are affected by air and water pollution, acid rain, changes in the ozone layer and how these conditions influence biodiversity, habitat loss and species survival.

The course is capped off by lessons that take an in-depth look at the process of technology design, giving students a look at how scientists and technical designers work together to achieve common goals. Students are taught about the kinds of professions that currently exist in the science and technology fields and learn about the necessary academic preparation needed to gain employment in these branches of study.

### Course Requirements

Grade Level - 7 - 8

Duration - 2 Semesters

Material - Basic Kitchen Lab Supplies

Prerequisites - Math 6 | Science 6

## PHYSICAL SCIENCE

### Semester A

This 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. Among other subjects, students study Newton's Laws of Motion; chemical reactions; forces, including gravitational, motion, acceleration, and mass; and energy, including light, thermodynamics, electricity, and magnetism.

### Semester B

In Semester B, Physical Science students expand their knowledge of energy, including electricity and thermal energy. Particular attention is given to environmental issues including the use of fossil fuels, and pollution and the greenhouse effect. Students learn about different technologies in the Physical Science realm, including satellites and hydraulics.

### Course Requirements

Grade Level - 7 - 8

Duration - 2 Semesters

\*Materials - Basic Kitchen Lab Supplies

## SOCIAL STUDIES

### SOCIAL STUDIES 6

#### Semester A

This sixth-grade course explores the beginning of early civilizations through the Gupta dynasty in ancient India. Students will analyze the shift from nomadic societies to agricultural societies. Students will study the development of civilizations, including the areas of Mesopotamia, Egypt, Ancient Israel, and India. The study of these civilizations will include the impact of geography, early history, cultural development, and economic change.

This course is designed to build on students' prior knowledge and skill sets in the application of geographic information and tools to understand complex relations between the physical environment and human existence. While focusing on each part of the world, students are able to recognize characteristics distinguishing regions in the Middle East, South Asia and Africa. Each regional study encompasses an in-depth study of the physical geography, culture, economy, government, and social dynamics defining the land and people. A historical element is intertwined into the regional studies, as an investigation of the earliest civilizations demonstrates how and why people migrated to different locations, and how the people in these places survived and advanced with available resources.

#### Semester B

This sixth-grade course explores early civilizations, from ancient Greek society to the beginning of the Silk Road. Students will study the geographical, political, social, and economic foundations of early civilizations. They'll examine the geography, early history, cultural development, and economic changes of civilizations like Rome, Persia, and China. The geographic focus will include the study of physical and political maps, economic development and resources, and migration patterns. Students will also study the development of philosophies and religions like Judaism, Christianity, Confucianism, and Taoism. Students' final grades will be based on their performance in a variety of assessment types: Workbooks, Discussion Boards, Checkpoints, a Final Exam, and a multistep project.

## Course Requirements

Grade Level - 6  
Duration - 2 Semesters  
Materials - None

## SOCIAL STUDIES 7

### Semester A

This seventh-grade course explores the social, cultural, and technological changes that occurred in Europe, Africa, and Asia in the years AD 500–1789. After reviewing the ancient world and the ways in which archaeologists and historians uncover the past, students study the history and geography of great civilizations that were developing concurrently throughout the world during medieval and early modern times.

Throughout the course, students examine and analyze readings, videos, primary sources, timelines, and other materials that paint a picture of historical topics. Discussions with peers help students to think creatively and critically about topics. The projects that span the course are designed to develop and sharpen the students' writing skills.

### Semester B

In this second semester of the course, students study the Renaissance, Reformation, and the Age of Exploration, examining the growing economic interaction among civilizations. Students learn about the exchange of ideas, beliefs, technologies, and commodities. They learn about the resulting growth of Enlightenment philosophy and the new examination of the concepts of reason and authority, the natural rights of human beings and the divine right of kings, experimentalism in science, and the dogma of belief. Finally, students assess the political forces let loose by the Enlightenment, particularly the rise of democratic ideas, and they learn about the continuing influence of these ideas in the world today. The class concludes with a look at the US Revolutionary War and the reasons leading to it.

## Course Requirements

Grade Level - 7  
Duration - 2 Semesters  
Materials - None

## SOCIAL STUDIES 8

### Semester A

This course will take students on a journey through the origins of the United States of America. Students will begin by exploring how American Indian societies lived in their environments. Next, they will examine reasons for European exploration and settlement in North America. From there, students will explore the development of the British colonies and the causes behind the American Revolution. They will learn how the Patriots were able to defeat Great Britain and achieve independence. They will be able to name the documents that define the democratic nature of our American republic. They will learn why the Declaration of Independence and the Constitution are so revolutionary.

Students will explore the major economic and social changes of the mid-19th century. These periods saw major social reform movements that transformed America.

Throughout this course, students will create a biography project that will let them create a profile book for a key historical figure.

### Semester B

This course will take students on a journey from early Spanish missions in western North America up to the end of the 19th century in the United States. Students begin by exploring Spanish mission societies and their interactions with American Indians. Next, they will examine reasons for western exploration and settlement in North America. From there, students explore the development of the Mexican colonies and the causes behind the Mexican-American War and the Texas Revolution. They will also analyze the California gold rush and immigration to the West Coast.

The course then explores the continuing conflict over slavery. The impact on American Indians is discussed as students learn how the government battles the Plains Indians through both treaties and rifles. Lastly, students explore the major economic and social changes of the late-19th century.

## ELECTIVES

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## WORLD LANGUAGES

### FRENCH 1

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 - 6 - 7 (*8th graders should take French 1 for high school credit*)  
Duration - 2 Semesters  
Materials - None

### FRENCH 2

#### Semester A

Semester A focuses on the continuation and enhancement of language skills presented in Level 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 - 8  
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

## GERMAN 1

### 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.

### Course Requirements

Grade Level - 6 - 7 (*8th graders should take German 1 for high school credit*)  
Duration - 2 Semesters  
Materials - None

## GERMAN 2

### 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 to travel throughout the German-speaking world.

### Course Requirements

Grade Level - 8  
Duration - 2 Semesters  
Materials - None  
Prerequisites - German 1

## SPANISH 1

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 - 6 - 7 (*8th graders should take Spanish 1 for high school credit*)  
Duration - 2 Semesters  
Materials - None

## SPANISH 2

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, the imperfect tense. Semester B will continue building on vocabulary, grammar concepts and communicating effectively in the target language. You 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 - 8  
Duration - 2 Semesters  
Materials - None  
Prerequisites - Spanish 1

## ART APPRECIATION

What makes an artwork a masterpiece? Why do artists create art? What is the difference between Rococo and Art Nouveau? In this course, students will discover the answers to these questions and more. We examine the elements of art and principles of design and explore how artists have used these elements and principles in the creation of art for centuries.

### Course Requirements

Grade Level - 8  
Duration - 1 Semester  
Materials - None

## BASIC DRAWING MS

In 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 meaning of things which can be seen in their home and community. By becoming more observant, by experimenting with new materials, and by exploring a variety of methods, students will continue to grow in artistic skill and enjoyment. Each lesson provides room for expressing the technical skill learned in a unique, creative way.

### Course Requirements

Grade Level - 6 - 8  
Duration - 1 Semester  
Materials - Drawing pencil, 2B; Round hair brush #10; Bottle India Ink, black, Pilot Varsity Pen, self-contained black ink 2 conté crayons: white, black; Art gum eraser, white; wax Crayola crayon; 40 sheets white drawing paper, 9 12; 5 sheets construction paper, 9 12; black; 15 sheets grey construction paper, 9 12; 14 large envelopes, 10 x 13; 2 sheets white watercolor paper (rough, heavy, stiff); 2 sheets rice paper 9 1/2 x12 (soft, translucent) 25 sheets newsprint, 9 12; 1 bottle white glue

## BEGINNING PAINTING

This course introduces students to classical and contemporary painting, techniques and concepts, with emphasis on the understanding of its formal language and the fundamentals of artistic expression. Painting from still life, landscape, and life models from observation will be geared towards realism; at the same time, various other painting styles could be explored. Color theory, linear perspective, compositional structure, figure/ ground relationships, visual perception, spatial concepts, and critical thinking skills will all be emphasized. Students will study and research major painting styles and movements in historical context. Students will use this global approach to develop a "critical eye" in evaluation of contemporary painting. Acrylic and watercolors are the mediums used in this class. The main emphasis of this course is to encourage and nourish individuality and creativity.

## Course Requirements

Grade Level - 6 - 8  
Duration - 1 Semester  
Materials - Chromacryl tube of acrylic paints; Round brush; Flat brush Watercolor paints (includes brush), Set of marker Painting paper (The pad of paper may be labeled watercolor paper. Please use for all paintings, including acrylic.) Newsprint paper (This paper is for sketches and testing paints. Do not use for painting projects.), 1-4b pencil, 7 project cardstock pages.

## COMPUTER BASICS

In this course you 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 - 6 - 8  
Duration - 1 Semester  
Materials - None

## HEALTH

This 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 - 6 - 8  
Duration - 1 Semester  
Materials - None

## INDIVIDUAL AND TEAM SPORTS

To improve and maintain optimum health, it is necessary for people of all ages to participate in physical exercise. Physical education is much more than just fitness and exercise. A well-planned program will cause you to think and express your emotions about different situations. In addition, a good program can make a valuable contribution to your education. These experiences will help you develop a sense of wellness. Emphasis in this course is placed on the value of these sports as possible lifetime activities and on creating a clear explanation of the rules and basic principles of a variety of sports. The sports covered in this course are archery, bicycling, golf, skiing, tennis, volleyball, baseball, basketball, football, hockey, and soccer. Information about the playing area and equipment, basic rules, safety considerations, and terminology for each sport are included in the discussions.

### Course Requirements

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

## KEYBOARDING

The keyboarding course is appropriate for elementary and middle school students. The curriculum introduces new keys by rows. The content is designed with a strong focus on sight and high frequency words. This course assumes no keyboarding experience.

### Course Requirements

Grade Level - 6 - 8  
Duration - 1 Semester  
Materials - None  
Tech Requirements - Students will need a computer or laptop for this course; tablets are not sufficient.

learned a variety of specific learning skills and strategies, gained greater understanding of their own learning preferences, and become prepared to develop and implement specific learning and study plans for any academic course or other learning needs.

### Course Requirements

Grade Level - 8  
Duration - 1 Semester  
Materials - None  
Prerequisites - None

## MUSIC APPRECIATION

Students will gain a through 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 study skills required for composing and performing music and inventing musical instruments.

### Course Requirements

Grade Level - 8  
Duration - 1 Semester  
Materials - None

## SCRATCH CODING

Scratch is a program developed by MIT, teaching students the basic of 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 - 6 - 8  
Duration - 1 Semester  
Materials - None  
Tech Requirements - Students will need a computer or laptop for this course; tablets are not sufficient.

## STUDY SKILLS & STRATEGIES

The Study Skills and Strategies course equips students with skills and understanding critical to effective learning. Using a unique approach to the traditional topic of study skills, this course weaves understanding the role of the brain in learning into the instruction of discrete learning skills and strategies. Moving beyond a list of good tips and ideas, the Study Skills and Strategies course will challenge students to develop intentional approaches to learning. They will required to make connections between the strategies and skills they learn in this course and the implementation of those strategies and skills in their other coursework. Upon completion of the course, students will have

LANGUAGE ARTS
Language Arts 6 A & B
Language Arts 7 A & B
Language Arts 8 A & B
MATHS
Math 6 A & B
Math 7 A & B
Pre-Algebra 8 A & B
SCIENCE
Life Science A & B
Earth & Space Science A & B
Physical Science A & B
SOCIAL STUDIES
Social Studies 6 A & B
Social Studies 7 A & B
Social Studies 8 A & B

ELECTIVES - WORLD LANGUAGES
French 1 A & B
French 2 A & B
German 1 A & B
German 2 A & B
Spanish 1 A & B
Spanish 2 A & B
ELECTIVES
Art Appreciation
Basic Drawing MS
Beginning Painting
Computer Basics
Health
Individual and Team Sports
Keyboarding
Music Appreciation
Scratch Coding
Study Skill and Strategies
KHDA COURSES (UAE Students Only)
UAE Social Studies
UAE Moral Education
Islamic Studies (for students with Islam as their religion)
Native Arabic/ Non-Native Arabic



# HIGH SCHOOL

# 9-12

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

English	<b>4 credits</b>
Math	<b>4 credits</b> (Algebra 1 and higher)
Science	<b>4 credits</b> (must include 2 lab science credits)
History and Social Sciences	<b>4 credits</b> (must include 1 credit of U.S. History)
World Languages	<b>2 credits</b> (must be 2 credits of the same language; must be a non-English language course)
Physical Education	<b>0.5 credit</b>
Health	<b>0.5 credit</b>
Electives	<b>5 credits</b>
<b>Total</b>	<b>24 Credits</b>

## LANGUAGE ARTS

### LANGUAGE ARTS 9

#### Semester A

English 9 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 and 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

Semester B 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 - 9

Duration - 2 Semesters

\* Reading list detailed in Appendix A.

### LANGUAGE ARTS 10

#### Semester A

English 10 is an integrated curriculum, with each unit consisting of thematically related lessons in five domains: analyzing literature, analyzing informational text, writing, speaking and listening, and language study, which includes word knowledge and grammar skills. The skills that students practice for this course are similar to the skills in English 9 but require more independence and depth of thought. An introductory lesson at the start of each unit helps students identify any areas of weakness and review those topics before starting the more challenging grade 10 lessons. Writing assignments required in Semester A of this course include fiction, expository, and persuasive, and analytical modes, emphasizing the use of details, evidence, and reasoning to support ideas. Speaking and listening lessons in Semester A cover collaborative discussion skills, the peer review process, and how to plan and deliver informative speeches and presentations. 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

Semester B 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 as well as the evaluation of various modes and forms of writing. 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 - 10

Duration - 2 Semesters

Prerequisites - Language Arts 9 or equivalent

\* Reading list detailed in Appendix A.

## LANGUAGE ARTS 11

### Semester A

English 11 is an American Literature course, with units organized chronologically according to periods in literary history. As students read foundation 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 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

Semester B consists of units focused 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 - 11

Duration - 2 Semesters

Prerequisites - Language Arts 10 or equivalent

\* Reading list detailed in Appendix A.

### Semester A

Students examine major works of literature organized into thematic units. Each unit contains poetry, short stories, and a novel that revolve around the theme for the unit. Themes include the self, relationships, alienation, choice, and death. As students read these works, they have the opportunity to reflect on these important themes by writing in multiple modes and creating cross-disciplinary projects.

### Semester B

"There is nothing either good or bad, but thinking makes it so" – Shakespeare. In this course students will experience the novels, short stories, poetry, and non-fiction from countries around the world. They will discover that the writers in this course have ideas and lives as interesting as their work. By reading contemporary work, students will also discover that no matter what a writer's origins, certain themes and events have been hard to run away from in the 20th and early 21st centuries. Along this journey students will use technology, writing, reflection, vocabulary, research, and other academic and personal skills to help them learn to enter the world of their community, their country, and their world.

### Course Requirements

Grade Level - 12

Duration - 2 Semesters

Prerequisites - Language Arts 11 or equivalent

\* Reading list detailed in Appendix A.

## HONORS LANGUAGE ARTS

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### LANGUAGE ARTS 9 HONORS

#### Semester A

Honors English 9 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 and 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. Students move immediately beyond the identification of literary elements or aspects of informational text to the analysis of these components. In the Honors course, students don't simply recognize and describe rhetorical strategies—they also use these strategies to create specific effects. Clear and extensive guidelines are provided for each Honors assignment along with a detailed rubric for evaluation.

#### Semester B

Like semester A, semester B of Honors English 9 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. As in Semester A, Honors assignments in this semester require students to take a more analytical or active approach to many of the assignments and activities in the course. Honors students will write more often and more deeply about topics and also reflect more critically on the

processes they use to read and write. 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 - 9

Duration - 2 Semesters

\* Reading list detailed in Appendix A.

## LANGUAGE ARTS 10 HONORS

### Semester A

Honors English 10 is an integrated curriculum consisting of thematically related lessons in five domains: analyzing literature, analyzing informational text, writing, speaking and listening, and language study, which includes word knowledge and grammar skills. The course provides challenging assignments aimed at preparing Honors-level students for advanced work in the study of literature and language arts. An introductory lesson at the start of each unit helps students identify any areas of weakness and review those topics if needed. Writing assignments required in Semester A of this course include fiction, expository, and persuasive, and analytical modes, emphasizing the use of details, evidence, and reasoning to support ideas. Speaking and listening lessons in Semester A cover collaborative discussion skills, the peer review process, and how to plan and deliver informative speeches and presentations. 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. Students move immediately beyond the identification of literary elements or aspects of informational text to the analysis of these components. In the Honors course, students don't simply recognize and describe rhetorical strategies—they also use these strategies to create specific effects. Some Honors assignments require students to go one step farther in developing an assignment. Clear and extensive guidelines are provided for each Honors assignment along with a detailed rubric for evaluation.

### Semester B

Like semester A, semester B 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 as well as the evaluation of various modes and forms of writing. 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, Honors assignments in this semester require students to take a more analytical or active approach to many of the assignments and activities in the course. Honors students will write more often and more deeply about topics and also reflect more critically on the processes they use to read and write.

### Course Requirements

Grade Level - 10

Duration - 2 Semesters

Prerequisites - Language Arts 9 or equivalent

\* Reading list detailed in Appendix A.

## LANGUAGE ARTS 11 HONORS

### Semester A

Honors English 11 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. The Honors level of the course provides additional challenging assignments aimed at preparing college-bound students for advanced work in the study of literature and language arts. Writing modes addressed 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

Semester B consists of units focused 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. 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 - 11

Duration - 2 Semesters

Prerequisites - Language Arts 10 or equivalent

\* Reading list detailed in Appendix A.

## LANGUAGE ARTS 12 HONORS

### Semester A

Honors English 12A focuses on learning to write with confidence and mastery. Emphasis is placed on building language flexibility, improving sentence structure, and mastering the writing process. Students create, revise, and edit six writing projects that are designed to help them take their writing to the next level. As an Honors course, emphasis is placed on project-based instruction and increased reading and writing opportunities. In this thought-provoking writing course, students prepare themselves for the demands of college and/or the job market by developing their writing skills. Through text readings, videos, interactive PowerPoint presentations, practice activities, workbook questions, interactive skills challenges, discussions, writing projects, and other activities students demonstrate their mastery of the writing process. Students will integrate the 6-Traits of Writing (i.e., ideas and content, organization, voice, word choice, sentence fluency, and conventions) into all their writing. Emphasis will be placed on additional reading and writing project-based instruction. Students will create projects including a short story, expository essay, functional document, persuasive essay, literary analysis, and research paper. Through the engaging activities in Honors English 12A, students become more mature and accomplished writers.

### Semester B

In Honors English 12B, students experience a survey of dynamic British literature from the ancient epic poem of Beowulf to more contemporary pieces by authors such as George Orwell and Doris Lessing. Emphasis is placed on major literary movements, British authors and classics, and the impact of historical events on literary works. In English 12B Honors, students gain a better understanding of English masterpieces as well as their own writing. As an Honors course, emphasis is placed on project-based instruction and increased reading and writing opportunities. Engaging videos, interesting readings, and interactive activities provide students with pragmatic opportunities to apply reading comprehension and writing skills to their lives. Students work through interactive lessons, completing several self-check activities and quizzes. In each unit, students complete an exam as well as writing projects that include a personal narrative, a research document, a literary response, a descriptive essay, an expository essay, and a persuasive composition. Students also participate in daily discussions and teacher feedback is provided throughout the course. Honors English 12B Honors covers the content and skills in English 12B as well as providing additional project-based instruction and increased reading and writing opportunities.

## Course Requirements

Grade Level - 12

Duration - 2 Semesters

Prerequisites - Language Arts 11 or equivalent

\* Reading list detailed in Appendix A.

# AP LANGUAGE ARTS

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## ENGLISH LANGUAGE AND COMPOSITION A & B

This course is the first semester of a full credit course that provides instruction on all the competencies needed to be successful on the Advanced Placement test from College Board. The course is designed to develop student awareness of how an author creates meaning through language use, genre conventions, and rhetorical choices. In addition, students are expected to write and analyze persuasive arguments. According to the English Language and Composition guidelines outlined on the AP website, the course “engages students in becoming skilled readers of prose written in a variety of periods, disciplines, and rhetorical contexts, and in becoming skilled writers who compose for a variety of purposes”. This course will help you to read with deeper understanding and write more powerfully and effectively. Our writing assignments include rhetorical analyses, personal essays, argumentative essays, expository essays, evaluation essays, journal entries, and more. Students should plan on 60-90 minutes per day to devote to AP English study.

## Course Requirements

Grade Level - 11 - 12

Duration - 2 Semesters

Materials - Patterns for College Writing: A Rhetorical Reader and Guide —Laurie Kirszner and Stephen Mandell - [click here](#)  
ISBN-13: 978-1319056643, ISBN-10: 1319056644

AP English Language and Composition 2019 & 2020  
by Test Prep Books - [click here](#)

ISBN-13: 978-1628456370, ISBN-10: 162845637X

Prerequisites - Honors Language Arts 11 or Equivalent

# MATH

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## ALGEBRA 1

### Semester A

Semester A introduces students to the world of Algebra through expressions and equations. Students will evaluate algebraic expressions, solve linear equations and graph them. This course also steers students through various real-world scenarios with the emphasis on using basic statistics to interpret the information given and found. Students learn through online lesson materials, videos and interactive activities. Each unit ends with a self-check quiz to confirm knowledge and understanding. Also included is a unit exam and project for students to apply what they have learned.

### Semester B

Semester B builds on the concepts learned in the first semester by providing a strong foundation in solving problems. Students will work with problems and applications that involve exponents, quadratic equations, polynomials and factoring methods, rational and radical equations, data analysis and probability. Students will interact with course materials through online lessons, videos, interactive questions and real-world applications. Each unit ends with a self-check quiz to confirm knowledge of the concepts learned. There is also a unit exam and project.



## Course Requirements

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

## GEOMETRY

### 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.

### Semester B

This course 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 2-dimensional and 3-dimensional objects.

## Course Requirements

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

## ALGEBRA 2

This course further extends the learner's understanding of major algebra concepts and prepares them with the building blocks needed to dive deeper into trigonometry, pre-calculus and advanced probability and statistics. Topics include radicals, quadratic functions and equations, polynomials, rational numbers, systems of equations and inequalities, exponents and logarithms, sequences and series, probability and statistics and trigonometry.

## Course Requirements

Grade Level - 9 - 12  
Duration - 2 Semesters  
Materials - None  
Prerequisites - Geometry

## INTEGRATED MATH 1 A & B

In Integrated Math 1, students use arithmetic properties of subsets of integers and rational, irrational and real numbers by simplifying expressions, solving linear equations and inequalities, graphing equations, finding the equation of a line, working with monomials and polynomials, and factoring and completing the square. Students use properties of the number system to judge the validity of results, justifying each step of the procedure to prove or disprove statements. Students compute

perimeter, circumference, 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 - 9 - 12  
Duration - 2 Semesters  
Materials - None

## INTEGRATED MATH 2 A & B

Students in Integrated Math will focus on pulling together and applying the accumulation of learning that they have acquired from their previous math courses. They will apply methods from probability and statistics; expand their repertoire of functions to include polynomial, rational, and radical functions; and expand their study of right triangle trigonometry. In addition, they will bring together all their experience with functions and geometry to create models and solve contextual problems.

## Course Requirements

Grade Level - 10 - 12  
Duration - 2 Semesters  
Materials - None  
Prerequisites - Integrated Math 1

## PRE-CALCULUS

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 graphing calculator is recommended for work on assignments, and on examinations. Pre-Calculus 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 - 11 - 12  
Duration - 2 Semesters  
Materials - None  
Prerequisites - Algebra II

## HONORS MATH

### ALGEBRA 1 HONORS

In the Honors course, students will do in depth study, problem-solving and application of algebraic concepts.

### Semester A

Semester A introduces students to the world of Algebra through expressions and equations. Students will evaluate algebraic expressions, solve linear equations and graph them. This course also steers students through various real-world scenarios with the emphasis on using basic

statistics to interpret the information. Students learn through online lesson materials, videos and interactive activities. At the end of each unit students will complete a self-check quiz and will be provided with feedback. Also included is a unit exam and project for students to apply what they have learned.

#### **Semester B**

Semester B builds on the concepts learned in the first semester by providing a strong foundation in solving problems. Students will work with problems and applications that involve exponents, quadratic equations, polynomials and factoring methods, rational and radical equations, data analysis and probability. Students will interact with course materials through online lessons, videos, interactive questions and real-world applications. Each unit ends with a self-check quiz to confirm knowledge of the concepts learned. There is also a unit exam and project.

#### **Course Requirements**

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

### **GEOMETRY HONORS**

#### **Semester A**

Honors Geometry 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. Geometry A consists of six modules. Each module comprises of ten lessons for a total of sixty lessons in the course. Honors students are expected to complete several assignments within each module that demonstrate their knowledge of the applications of geometry.

#### **Semester B**

Semester 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 2-dimensional and 3-dimensional objects. 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 - 9 - 12  
Duration - 2 Semesters  
Materials - None  
Prerequisites - Algebra I or equivalent

### **ALGEBRA 2 HONORS A & B**

This course further extends the learners' understanding of major algebra concepts and prepares them with the building blocks needed to dive deeper into trigonometry, pre-calculus and advanced probability and statistics. Topics include radicals, quadratic functions and equations, polynomials, rational numbers, systems of equations and inequalities, exponents and logarithms, sequences and series, probability and statistics and trigonometry. In the honors course, students will do in depth study, problem-solving and application of algebraic concepts.

#### **Course Requirements**

Grade Level - 9 - 12  
Materials - Calculator  
Duration - 2 Semesters  
Prerequisites - Geometry

## **AP MATH**

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### **AP CALCULUS AB**

AP Calculus is designed with the intent for students to incorporate the concepts of all previous math courses and expand upon these concepts with the implementation of Limits. Emphasis is placed upon the multi-representational approach to calculus where problems and their solutions are explored and interpreted graphically, numerically, analytically and verbally. Students will also be required to explain their answers in written form and will be asked to compare their written response to the AP grading rubric and explain why they feel they should receive that grade. Students are required to use graphing calculators with the capabilities ascribed by the College Board: (apcentral.collegeboard.com). These calculators will be used in a variety of ways including multi-representation of equations (graphs and tables) and for conducting explorations with various functions and how different values change the look of the function.

#### **Course Requirements**

Grade Level -11 - 12  
Duration - 2 Semesters  
Materials - Calculus 10th Edition by Ron Larson and Bruce Edwards (The AP 10th Edition is same as the 10th Edition, but includes practice exam questions.)  
AP Edition - ISBN-13:978-128506039, ISBN 10: 128506030X  
10th Edition - Hardcover - [click here](#), eTextbook - [click here](#)  
ISBN-13:978-1285057095 , ISBO-10:1285057090  
Prerequisites - Pre Calculus

### **AP CALCULUS BC**

AP Calculus BC is roughly equivalent to both first and second semester college calculus courses and extends the content learned in AB to different types of equations and introduces the topic of sequences and series. The AP course covers topics in differential and integral calculus, including concepts and skills of limits, derivatives, definite integrals, the Fundamental Theorem of Calculus, and series. The course teaches students to approach calculus concepts and problems when they are represented graphically, numerically, analytically, and verbally, and to make connections amongst these representations.

Students learn how to use technology to help solve problems, experiment, interpret results, and support conclusions.

### Course Requirements

Grade Level - 11 - 12

Duration - 2 Semesters

Materials - This course includes an eBook, no additional external materials are required.

Prerequisites - AP Calculus AB

## SCIENCE

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### EARTH SCIENCE

#### Semester A

The first three modules of Semester 1 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. Topics include 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 feature of the Sun and the planets and the movements of Earth. The second three modules of Semester 1 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 along with weathering and erosion and soil formation. The course then addresses the Earth as a system, feedback in systems, and Earth's major nutrient cycles. The second three modules of Semester B cover geologic history, including the evolution of Earth's atmosphere, the geologic time scale, and the fossil record. It then covers natural resources and the effects of human population on natural resources. The course ends 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 - 9 -12

Duration - 2 Semesters

Material - None

### BIOLOGY

#### Semester A

Biology A introduces students to the scientific method and the major concepts of biology from an 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 routing, 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. Student work through and complete several self-check activities and quizzes for practice and participate in self-reflection. In each unit, students complete the unit exam and deliver a unit project.

#### Semester B

The major concepts covered in Semester B 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. The second semester further examines the wonder of life and its mechanisms. Students work through and complete several self-check activities and quizzes for practice and participate in self-reflection. In each unit, students complete the unit exam and deliver a unit project.

### Course Requirements

Grade Level - 9 -12

Duration - 2 Semesters

Material - None

Prerequisites - Algebra 1

### CHEMISTRY

#### Semester A

In Chemistry A covers the basic principles and properties of matter. Students will discover how chemistry has evolved, learn about chemical lab equipment, techniques, and safety, and the proper way to make measurements to reduce error and uncertainty. Students will also explore atomic structure, periodic laws, types of bonding, chemical reactions, and stoichiometry.

#### Semester B

In Chemistry B, student will focus on the energy involved in chemistry and the uses for several types of chemical reactions. Students will begin by refreshing and deepening their understanding of the basics of matter and their relation to energy. Next, students will explore the properties of solutions, including acids, bases, and their reactions. Then, students will dive into thermodynamics, electrochemistry, organic chemistry, and finally nuclear chemistry. In this course, students will develop a solid understanding of several universal scientific principles and learn to manipulate the applications of chemistry in real-world settings.

## Course Requirements

Grade Level - 11 - 12

Duration - 2 Semesters

Materials - Graphing Calculator

Prerequisites - Algebra 1 - Geometry

## PHYSICS

### 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 school 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.

## Course Requirements

Grade Level - 11- 12

Duration - 2 Semesters

Materials - Graphing Calculator

Prerequisites - Algebra 1- Geometry

## ANATOMY AND PHYSIOLOGY

### Semester A

The aim of this course is to expand upon what was learned in Biology, while emphasizing the application of this material to human structures and functions. This course begins the study of human beings at the microscopic level and works its way up to an in-depth study of select organ systems. Special emphasis will be placed upon applying and demonstrating the information learned in this course through, not only tests and quizzes, but through special projects and collaboration as well.

### Semester B

Semester B is designed to give the student an understanding of how structure and function are related in the human body. The student will study the human body from the cellular level to the organ system level. All the major body systems will be studied in great detail. Additionally, biochemistry, cell biology, histology, biotechnology, bioethics, and pathology will also be studied.

## Course Requirements

Grade Level - 9 - 12

Duration - 2 Semesters

Materials - None

Prerequisites - Biology

## PHYSICAL SCIENCE

### Semester A

Physical Science A provides an introduction to the world of chemistry. Students will begin with an introduction to science as a whole and the basic methods and tools that scientists use to produce meaningful results. Students then will explore the structure and properties of matter and how it changes in response to energy. Next, students will practice reading and interpreting the information on the periodic table as well as chemical names, formulas, equations, and models. Students will also discover the types and properties of reactions, mixtures, solutions, acids, and bases. Finally, students will examine both the scientific principles and human applications of nuclear reactions. Throughout the course, students explore the historical perspectives and modern social implications of the course topics.

### Semester B

Physical Science B introduces students to the world of physics. They will start by building a foundation of what it means to be scientific by describing the ways scientists think, communicate, and do their jobs. Next, students will cover important aspects of motion and force, including the motion of fluids and how motion relates to Newton's laws. Building up from these fundamentals, students will explore the topics of thermodynamics, energy, work, and machines. The nature and properties of waves are covered next, and then students end by examining electricity and magnetism. Throughout the course, students will parallel their investigation into the scientific method with a course project that introduces them to the field and processes of engineering.

## Course Requirements

Grade Level - 11 - 12

Duration - 2 Semesters

Materials - Graphing Calculator

Prerequisites - Algebra 1 - Geometry

## FORENSIC SCIENCE

This course offers students the chance to dive into the riveting job of crime scene analysis. Learn the techniques and practices applied during a crime scene investigation and how clues and data are recorded and preserved. Students will better understand how forensic science applies technology to make discoveries and bring criminals to justice as they follow the entire forensic process—from pursuing the evidence trail to taking the findings to trial. By careful examination of the crime scene elements, even the most heinous crimes can be solved.

## Course Requirements

Grade Level - 9 - 12

Duration - 1 Semester

Materials - None

## HONORS SCIENCE

### BIOLOGY HONORS

#### Semester A

The science of biology 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 focuses on the life of the cell, including structure, transport, genetics, protein synthesis, energy production, and usage. Students are led on a tour of living systems, from the tiniest to the broadest level of organization. During this tour, students will employ computer simulations, videotaped labs, and hands-on investigation to explore each concept. This course will guide the student to see his or her world in biological terms, and to understand current topics in biological research and application.

#### **Semester B**

The study of the human body involves more than just its anatomy, but also an understanding of the roles each part plays, how each contributes to system, and holistic wellness. The course is to examine each of the organ systems, including the skeletal, muscular, integumentary (skin), circulatory, respiratory, immune, digestive, excretory, nervous, sensory, endocrine, and reproductive systems, and their regulation and coordination. After completing the course, students will have a foundation for more specialized studies in the health sciences.

#### **Course Requirements**

Grade Level - 9 - 12  
Duration - 2 Semesters  
Materials - None  
Prerequisites - Algebra I

### **CHEMISTRY HONORS**

#### **Semester A**

In this course, students will discover what chemistry is, and how it is used and found all around us. The importance of the scientific method to solve real world problems will be investigated. Knowledge will be gained in the following areas: types of matter, atomic structure, chemical periodicity, chemical formula writing and naming, chemical equations. This course will also stress the important relationship between math and science while studying measurement, metric system and stoichiometry. Students will use higher order thinking throughout the entire course.

#### **Semester B**

In Chemistry B, students will investigate chemical bonding, thermochemistry, and acids and bases. The importance of the scientific method to solve real world problems will be investigated. Students will be introduced to organic chemistry, biochemistry, and nuclear chemistry. This course will also stress the important relationship between math and science. Students will use higher order thinking throughout the entire course.

#### **Course Requirements**

Grade Level - 10 - 12  
Duration - 2 Semesters  
Materials - None  
Prerequisites - Algebra 1 - Geometry

### **PHYSICS HONORS**

#### **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 school 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 trigonometry-based course. It is assumed you know and can use trigonometry

#### **Course Requirements**

Grade Level - 11 - 12  
Duration - 2 Semesters  
Materials - None  
Prerequisites - Algebra 1 - Geometry

## **AP SCIENCE**

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### **AP BIOLOGY A & B**

This course is taught at the college level and designed to prepare students to take the Advanced Placement Examination and score high enough to earn college credit in those colleges that recognize the examination. College level textbooks are used. The course will cover all the topics in the AP Biology Course Description. These include biochemistry, cell structure and function, cell energetics, cellular reproduction and communication, heredity, molecular genetics, evolution, ecology, diversity of organisms, structure and function of plants and animals, and comparative anatomy.

#### **Course Requirements**

Grade Level - 11 - 12  
Duration - 2 Semesters  
Materials - Campbell Biology AP Edition 2017 -Lisa Urry, Michael Cain, Steven Wasserman, Peter Minorsky, Jane Reece, Neil Campbell  
ISBN-13: 978-0134433691, ISBN-10: 134433696  
5 Steps to a 5 AP Biology 2019  
ISBN-13: 978-1260122817, ISBN-10: 1260122816  
AP Edition - [click here](#), Non-AP Edition (eBook) - [click here](#)  
Lab Materials - Please note that iCademy Middle East has access to virtual labs, physical labs are Optional:  
AP Biology - Advanced Biology Kit: [click here](#)  
Prerequisites - Biology - Algebra I

### **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, nonmetallic metals, transition metals, organic chemistry, and synthetic and natural organic polymers.

## Course Requirements

Grade Level - 11 - 12

Duration - 2 Semesters

Materials - AP Chemistry Chang- Raymond Chang,

Kenneth Goldsby - 12th Edition, 2016

ISBN-13:978-0076727704

ISBN-10:1007672770X

Cracking the AP Chemistry Exam 2019

ISBN-13:978-0525567493

ISBN-10:0525567496

Lab Materials - Please note that iCademy Middle East

has access to virtual labs, so the physical labs are

Optional - AP MicroChem Lab Kit & Manual - click here

Prerequisites - Chemistry - Algebra 1 - Geometry

# HISTORY

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## WORLD HISTORY

### Semester A

World History 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

Semester 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 and events related to the Cold War and between 19th-century imperialism and modern independence movements.

## Course Requirements

Grade Level - 9 - 12

Duration - 2 Semesters

Materials - None

## WORLD GEOGRAPHY & CULTURES

### 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

This second-semester course 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 - 9 - 12

Duration - 2 Semesters

Materials - None

## AMERICAN HISTORY

### Semester A

This course 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 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. Students also explore research methods and determine accurate sources of data from the past.

### 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. This course begins with an assessment of life in United States prior to World War I and ends with the conflicts of the new millennium. The course ends 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 - 10 - 12

Duration - 2 Semesters

Materials - None

## AMERICAN GOVERNMENT

This course 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 final unit in the course will guide students through a series of

projects that require them to apply what they have learned about American government to an issue that interests them.

### Course Requirements

Grade Level - 11 - 12  
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 our economy. 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 - 11 - 12  
Duration - 1 Semester  
Materials - None

## HONORS HISTORY

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### WORLD HISTORY HONORS

#### Semester A

In Honors World History A, students explore ancient civilizations in order to understand the geographic, political, economic, and social characteristics of people. By developing their understanding of the past, students can better understand the present and determine their direction for the future. In this course, students explore the first civilization in Mesopotamia; the ancient civilizations of China, Greece, and Rome; the rise of the Byzantine Empire; and the feudal system in Europe and Japan. They also learn about the Renaissance and Reformation, the Enlightenment Period, and the scientific and democratic revolutions in Europe that spread to the new nation of America. The last part of the course

concentrates on the Napoleonic Era, the Industrial Revolution in England, and the rise of imperialism in Europe. In addition, historical analysis and current events are featured in the final lessons.

#### Semester B

In this semester, students examine the factors leading up to World War I, the rise of nationalism, and the worldwide economic depression. The causes of War II, and the military strategies involved are also analyzed. The advances in modern warfare for both World Wars are a special focus. In addition, students learn about the struggle between the ideologies of democracy and communism as well as the change in the balance of power after World War II in which countries fought for self-rule. An appraisal of the Cold War and the fall of the Soviet Union are included. Later lessons find students exploring the roots of terrorism and the conflicts in the Middle East, Eastern Europe, and Asia. The final unit of the course centers on the new global economy, advances in science and technology, and current environmental issues. Students assess primary and secondary source materials in depth. Projects and class discussions challenge students to predict outcomes, draw conclusions, and make choices based upon critical thinking.

### Course Requirements

Grade Level - 9 - 12  
Duration - 2 Semester  
Materials - None

## AMERICAN GOVERNMENT HONORS

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 our democracy. 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. 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 organizations and management of governing to develop their own views on current political issues. 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 activists. 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 - 11 - 12  
Duration - 1 Semester  
Materials - None  
Prerequisites - American History

## AMERICAN HISTORY HONORS

### Semester A

Honors American History A helps students learn the story of the settling of North America by Europeans in the 1600s. A prevailing theme of the course is that America accomplished tasks that no other country had undertaken before. America broke away from Europe, established its own country with a Constitution that has given freedom to more people than any other country in the world, and settled a country by putting that Constitution into practice. The course ends with a study of America's emergence as a world power at the beginning of the 20th Century. Students will encounter primary and secondary source document investigations, biographies of key individuals, political cartoons, map studies, and period literature.

### Semester B

American History B Honors begins in the 1920s Jazz Age and ends in the 21st Century. Students will examine economic factors that lead to the Great Depression and World War II. The West's involvement in the Cold War, as well as the fall of the Soviet Union, will be covered in detail. America's rise as a world power is featured. The final unit of the course includes a study of the environment, modern presidential foreign and domestic policies, and the Middle East.

### Course Requirements

Grade Level - 10 - 12  
Duration - 2 Semesters  
Materials - None

## AP HISTORY

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### AP U.S. GOVERNMENT & POLITICS A & B

This course examines the U.S. political system. Students in this course will discuss political ideology, the development of the political system and democratic institutions. Students should, according to the College Board, gain an analytical perspective on government and politics in the United States. Furthermore, students will study both the general concepts used to interpret U.S. politics and the analysis of specific examples throughout history. The class discussion will require that students acquire a familiarity with the various institutions, groups, beliefs, and ideas that constitute U.S. politics. The main emphasis of the course, however, is to be able to apply a basic comprehension of the U.S. political system to contemporary events.

### Course Requirements

Grade Level - 11 - 12  
Duration - 2 Semesters  
Materials - American Democracy Now, Fifth Edition, AP Edition - Harrison, Harris and Deardorff  
ISBN-13: 978-0076788279  
ISBN-10: 007678827X  
Cracking the AP U.S. Government & Politics Exam, 2020 Edition  
ISBN-13: 978-0525568377  
ISBN-10: 0525568379  
Prerequisites - American History

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

AP US History is an intensive full year course divided into two semesters. The course focuses on exploring and analyzing American historical events, individuals and cultural trends. You will be prepared with the analytical skills and factual knowledge necessary to deal critically with the problems and materials in United States History. This first semester course covers the time frame of 1492 to 1877, and the second semester course covers the time frame 1878 to present.

This course is designed to prepare students for the Advanced Placement exam.

### Course Requirements

Grade Level - 11 - 12  
Duration - 2 Semesters  
Materials - The American Pageant 16th Edition, David M. Kennedy, Lizabeth Cohen  
ISBN-13: 978-1305075900  
ISBN-10: 1305075900  
Cracking the AP U.S. History Exam, 2020 Edition  
ISBN-13: 978-0525568391  
ISBN-10: 0525568395  
Prerequisites - American History

### AP WORLD HISTORY A & B

The first semester of AP World History 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.

The second semester of AP World History 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

Grade Level - 11 - 12  
Duration - 2 Semesters  
Materials - Bentley, Traditions & Encounters: A Global Perspective on the Past.  
UPDATED AP Edition © 2017, 6e, Student Edition  
ISBN-13: 978-0077504908  
ISBN-10: 0076681289  
AP World History Prep Plus 2018-2019  
ISBN-13: 978-1506203379  
ISBN-10: 150620337X  
Prerequisites - World History



# WORLD LANGUAGES

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## SPANISH 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. Grammatical concepts and cultural information will be introduced in context while incorporating various listening, speaking and writing activities.

### Course Requirements

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

## SPANISH 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, the imperfect tense. Semester B will continue building on vocabulary, grammar concepts and communicating effectively in the target language. Students will explore countries where Spanish is spoken and continue to keep abreast of current events in the Spanish-speaking world.

### Course Requirements

Grade Level - 9 - 12  
Duration - 2 Semesters  
Materials - None  
Prerequisites - Spanish 1

## SPANISH 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 - 10 - 12  
Duration - 2 Semesters  
Materials - None  
Prerequisites - Spanish 2 or equivalent

## 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 - 8 - 12  
Duration - 2 Semesters  
Materials - None

## FRENCH 2 A & B

French 2 focuses on the continuation and enhancement of language skills presented in Level 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.

### Course Requirements

Grade Level - 9 - 12  
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

## 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. The course has been carefully aligned to national standards as set forth by ACTFL.

### Course Requirements

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

## GERMAN 1 A & B

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.

### Course Requirements

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

## GERMAN 2 A & B

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. 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 on traveling throughout the German-speaking world.

### Course Requirements

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

# AP WORLD LANGUAGES

## AP FRENCH LANGUAGE AND CULTURE A & B

The AP French Language and Culture course is an advanced language course in which students are directly prepared for the AP French Language and Culture test. It uses as its foundation the three modes of communication: interpersonal, interpretive and presentational. The course is conducted almost exclusively in French. The course is based on the six themes required by the College Board: (1) global challenges, (2) science and technology, (3) contemporary life, (4) personal and public identities, (5) families and communities, and (6) beauty and aesthetics. The course teaches language structures in context and focuses on the development of fluency to convey meaning. Students explore culture in both contemporary and historical contexts to develop an awareness and appreciation of cultural products, practices, and perspectives. Students should expect to listen to, read,

and understand a wide-variety of authentic French-language materials and sources, demonstrate proficiency in interpersonal, interpretive, and presentational communication using French, gain knowledge and understanding of the cultures of the Francophone world, use French to connect with other disciplines and expand knowledge in a wide-variety of contexts, develop insight into the nature of the French language and its culture, and use French to participate in communities at home and around the world. The AP French Language and Culture course is a college level course. The intensity, quality, and amount of course material can be compared to that of a third-year college course.

### Course Requirements

Grade Level - 11 - 12  
Duration - 2 Semesters  
Materials - The textbook below is required to purchase for Semester B (Jan-May)  
Barron's AP French Language and Culture - [click here](#)  
ISBN-13: 978-1438076034  
ISBN-10: 1438076037  
Prerequisites - French III or equivalent

## AP SPANISH LANGUAGE AND CULTURE A & B

The AP Spanish Language and Culture course is an advanced language course in which students are directly prepared for the AP Spanish Language and Culture test. It uses as its foundation the three modes of communication: interpersonal, interpretive and presentational. The course is conducted almost exclusively in Spanish. The course is based on the six themes required by the College Board: (1) global challenges, (2) science and technology, (3) contemporary life, (4) personal and public identities, (5) families and communities, and (6) beauty and aesthetics. The course teaches language structures in context and focuses on the development of fluency to convey meaning. Students explore culture in both contemporary and historical contexts to develop an awareness and appreciation of cultural products, practices, and perspectives. Students should expect to listen to, read, and understand a wide-variety of authentic Spanish-language materials and sources, demonstrate proficiency in interpersonal, interpretive, and presentational communication using Spanish, gain knowledge and understanding of the cultures of Spanish speaking areas of the world, use Spanish to connect with other disciplines and expand knowledge in a wide-variety of contexts, develop insight into the nature of the Spanish language and its culture, and use Spanish to participate in communities at home and around the world. The AP Spanish Language and Culture course is a college level course. The intensity, quality, and amount of course material can be compared to that of a third-year college course.

### Course Requirements

Grade Level - 11 - 12  
Duration - 2 Semesters  
Materials - The textbook below is required to purchase for Semester B (Jan-May)  
Cracking the AP Spanish Language & Culture Exam with Audio CD - [click here](#)

ISBN-13: 978-0525568346  
ISBN-10: 0525568344  
Prerequisites - Spanish III or equivalent

## ELECTIVES

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### ANTHROPOLOGY 1

What makes us human? Is it our ability to use language? Is it our abstract thinking skills or our use of tools and technology? In Anthropology 1, students will trace the history of homo sapiens and explore our evolutionary trail. This course offers an anthropologic lens to observe our movement from cave dweller to modern human. It sheds light on how we forged our way and developed all that make us human, such as our cultures, languages, and religions. We, as humans in the 21st century, are highly intelligent, innovative people with astounding technological ability—how did we get this way?

#### Course Requirements

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

### ART APPRECIATION

What makes an artwork a masterpiece? Why do artists create art? What is the difference between Rococo and Art Nouveau? In this course, students will discover the answers to these questions and more. We examine the elements of art and principles of design and explore how artists have used these elements and principles in the creation of art for centuries.

#### Course Requirements

Grade Level - 8 - 12  
Duration - 1 Semester  
Materials - None

### ART HISTORY

This Art History course 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 - 8 - 12  
Duration - 1 Semester  
Materials - None

### ASTRONOMY

The universe is truly the last unknown frontier and offers more questions than answers. Why do stars twinkle? Is it possible to fall into a black hole? Will the sun ever stop shining? Since humans first glimpsed into the vastness of the night sky, we have been fascinated with the celestial world of planets and stars. Astronomy: Exploring the Universe introduces you to the engaging world of

astronomy. 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 - 9 - 12  
Duration - 1 Semester  
Materials - None

### BASIC DRAWING HS

In 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. 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. An example will only show one way of using the technique described. By becoming more observant, by experimenting with new materials, and by exploring a variety of methods, students will continue to grow in artistic skill and enjoyment. Beyond fundamental skills are various levels of creativity. Each lesson provides room for expressing the technical skill learned in a unique, creative way.

#### Course Requirements

Grade Level - 6 - 12  
Duration - 1 Semester  
\*Materials listed in Appendix A.

### BEGINNING PAINTING

This course introduces students to classical and contemporary painting, techniques and concepts, with emphasis on the understanding of its formal language and the fundamentals of artistic expression. Painting from still life, landscape, and life models from observation will be geared towards realism; at the same time, various other painting styles could be explored. Color theory, linear perspective, compositional structure, figure/ground relationships, visual perception, spatial concepts, and critical thinking skills will all be emphasized. Students will study and research major painting styles and movements in historical context. The hope is that students will use this global approach to develop a “critical eye” in evaluation of contemporary painting. Acrylic and watercolors are the mediums used in this class. The main emphasis of this course is to encourage and nourish individuality and creativity.

#### Course Requirements

Grade Level - 6 - 12  
Duration - 1 Semester  
\*Materials listed in Appendix A.

### CHILD DEVELOPMENT

This course is designed to help prepare students for their responsibilities as parents and caregivers of children.

Topics include prenatal care, growth and development through age six, maternal health, parenting skills, and child guidance.

### Course Requirements

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

## CONSUMER MATH A & B

This course focuses on the mathematics involved in making wise consumer decisions. Students explore the many ways in which mathematics affects their daily lives. The first semester will cover paychecks and wages, taxes, insurance, budgets, bank accounts, credit cards, interest calculations, and comparison shopping. Second semester topics include vehicle and home purchasing, investing, and business and employee management.

### Course Requirements

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

## CONTEMPORARY NOVELS

For this course, students will read a set of novels and novellas that were written during the twentieth century and reflect themes common to contemporary literature, such as the ability of the human spirit to rise above seemingly-impossible circumstances. Through creative projects and writing assignments, students will identify and analyze each novel's themes and compare and contrast the novels' treatment of common themes. Like most contemporary literature, the novels assigned for this course contain realistic situations and language. In addition to the novels listed, each student will read another contemporary novel of his or her choosing that the instructor must approve. MLA (Modern Language Association) documentation is required on all papers submitted.

### Course Requirements

Grade Level - 9 - 12  
Duration - 1 Semester  
Materials - Novels:

- Picture Bride - By Yoshiko Uchida
- Night - By Elie Weisel
- To Kill a Mockingbird - By Harper Lee
- Fallen Angels - By Walter Dean Myers
- The Old Man and The Sea - By Ernest Hemingway
- Rita Hayworth and Shawshank Redemption - By Stephen King

Prerequisites - Language Arts 9

## CREATIVE WRITING

### Semester A

At the beginning of the semester students consider the importance of word play exercises in improving their facility with language while building a compelling and creative writing style. Focusing on word nuances and precision, later lessons guide students to write in a variety of short modes—including poetry, song lyrics, prose

poetry, short stories, and creative nonfiction. There are several opportunities for peer review in this semester, during which students learn best practices for participating in writing workshops, and then revise their work using feedback from their peers.

### Semester B

This semester focuses on longer works of fiction: short stories, plays, and novels. Students learn basic techniques of plot and character development along with strategies for creating suspense and building a theme, and they have opportunities to write in several different genres. Lessons cover a few special topics as well, including graphic novels, animation, comedy, and improvisation. Students apply what they have learned about writing workshops and revising to the longer pieces of writing they create.

### Course Requirements

Grade Level - 10 - 12  
Duration - 2 Semesters  
Materials - basic art supplies, Digital camera, camera phone, or scanner  
Prerequisites - Language Arts 9

## MARINE SCIENCE

About 70% of the Earth is covered by water. Even today, much of the world's oceans remain unexplored. Marine scientists make exciting new discoveries about marine life every day. In this course, students will discover the vast network of life that exists beneath the ocean's surface and study the impact that humans have on the oceans.

### Course Requirements

Grade Level - 9 - 12  
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 - 8 - 12  
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 - 9  
Duration - 1 Semester  
Materials - None

## PSYCHOLOGY

### Semester A

In Semester A students begins with a brief history of psychologists and their experimental methods. Next, they examine personality theories. Then human development from the infant stage through adult stage is explored. Finally, the last part of the course is about consciousness: sleep, dreams, and conscious-altering substances. Students are encouraged to increase their own self-awareness as they move through the course.

### Semester B

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 - 9 - 12  
Duration - 2 Semesters  
Materials - None

## SOCIOLOGY

Sociology is the study of society including individuals, human groups, and organizations. The course is divided into four main areas: the sociological perspective, social structures, inequality in society, and social institutions and change. Students will examine controversies around social change, inequality, gender, and race. The course revolves around an overview of the field with projects that offer the student a chance to explore from a sociologist's perspective.

### Course Requirements

Grade Level - 9 - 12  
Duration - 1 Semester  
Materials - "The House on Mango Street"  
by Sandra Cisneros

## STUDY SKILLS & STRATEGIES

The Study Skills and Strategies course equips students with skills and understandings critical to effective learning. Using a unique approach to the traditional topic of study skills, this course weaves understanding regarding the role of the brain in learning into the instruction of discrete learning skills and strategies. Moving beyond a list of good tips and ideas, the Study Skills and Strategies course will challenge students to develop intentional approaches to learning. They will be required to make connections between the strategies and skills they learn in this course and the implementation of those strategies and skills in their other coursework. Upon completion of the course, students will have learned a variety of specific learning skills and strategies, gained greater understanding of their own learning preferences, and become prepared to develop and implement specific learning and study plans for any academic course or other learning needs.

## Course Requirements

Grade Level - 8 - 12  
Duration - 1 Semester  
Materials - None

## THEATER STUDIES

Have you ever wondered how a play goes from the playwright's mind all the way into a multi-million-dollar Broadway production? In this course, you'll learn the whole process! This course provides a thorough introduction to the theater by providing an overview of major topics in theater studies, with a blend of theoretical and practical lessons. In the first half of this course you will learn about the definitions of theater, theater history, and contemporary theatrical genres. The second half of the course will guide you through all elements of putting on a professional theatrical production. You will learn about the entire production process, from playwriting through opening night, including elements of technical theater, the rehearsal process, and audience response. Whether you're an aspiring actor, technician, director, or producer, or even just an avid theater-goer, this course is for you.

### Course Requirements

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

## CAREER ELECTIVES

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### ACCOUNTING

In this course, students will explore accounting, including investigating accounting careers. They will learn basic accounting skills and procedures both with and without a computer for general journals, general ledgers, cash payments journals, cash receipts journals, sales journals, accounts payable ledgers, and accounts receivable ledgers. Students will also learn how to reconcile a bank statement and to prepare payroll records. This course covers the basic principles of financial accounting for individuals and for companies with attention to both the mathematical formulas and to the ethical side of accounting. Each unit has practical exercises including a project at the end of the unit.

### Course Requirements

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

### ANIMATION

Do you wonder what it would be like to create the next blockbuster animated movie or do you want to make the next big video game? Do you have an eye for drawing, technology, and timing? If so, Animation is the course for you! You will learn how to use animation tools to conceptualize and bring your creations to life. You'll learn the ins and outs of creating 2D and 3D animation, from start to finish. You'll even begin working on our own design portfolio and get hands on experience

with creating your own animation projects. Learning about Animation could lead to a thriving career in the growing world of technology and animation.

### Course Requirements

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

## BASIC WEB DESIGN

In this course, students will learn how to design a beautiful and functional website. Students will learn how to take their design and translate it into a live website using Hypertext Markup Language (HTML) and Cascading Style Sheets (CSS) programming languages. HTML5 and CSS3 will be the standard versions used in the class. Students will understand design components of websites, including the use of color, layout and when to use different techniques, typography rules, and the importance of imagery. At the conclusion of the course, students will present a website to the class. Upon completion of this course, each student will have hands-on experience creating a fully functioning website. Students do not need to have a previous technical background with HTML or CSS prior to taking this course.

### Course Requirements

Grade Level - 9 - 12  
Duration - 1 Semester  
Software and Materials Required

- o HTML Text Editor (choose one):
- o TextEdit – For use on Mac – comes with OS
- o Notepad – For use on Windows – comes with OS
- o Text – For use on Chromebook – free app download from the Google Store
- o Image Editing Software (choose one):
- o Pixlr – <https://pixlr.com/editor/> (in-browser)
- o GIMP – <http://www.gimp.org/downloads/> (downloadable program)
- o Webhosting and basic in-browser FTP:
- o Neocities – <https://www.neocities.org>

Technical Requirements - Students will need a computer or laptop for this course; tablets are not sufficient.

## BUSINESS LAW

Students learn about the American legal system. They examine ethics, court systems, criminal law, and law of torts. They examine how the court systems work together, and what misconduct results in going to court. It is important to also understand your consumer rights. As they progress through the course, they will also gain an understanding from a business perspective what is right and wrong business actions and employment laws. As an employee or employer, it is important to understand the laws that protect the employee and employer. The study will focus on the formation of a business and the basic legal issues associated with each type of business.

### Course Requirements

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

## CAREER PLANNING

The Career Planning course guides students through the essential elements of the career planning process and the development of a defined career plan. Students will consider the many factors that impact career success and satisfaction. Using a process of investigation, research, and self-discovery, students will acquire the understandings critical to the career planning process. Upon completion of the course, students will have created a practical and comprehensive college or career transition portfolio that reflects their skills and abilities, as well as their interests, values, and goals.

### Course Requirements

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

## CAREERS IN CRIMINAL JUSTICE

Most of us have watched a sensationalized crime show at one time or another, but do we really know how things work behind those dreaded prison bars? Do we really understand all the many factors in our justice proceedings? The criminal justice system is a very complex field that requires many seriously dedicated people who are willing to pursue equal justice for all. The Careers in Criminal Justice course illuminates what those different career choices are and how the juvenile justice system, the correctional system, and the trial process all work together to maintain social order. Find out more about what really happens when the television show ends, and reality begins.

### Course Requirements

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

## COMPUTER BASICS

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 - 9 - 12  
Duration- 1 Semester  
Materials- None

## DIGITAL MEDIA

Digital Media is a project-based survey of different forms of digital media, such as digital audio, imaging and illustration, movie editing, and animation. It is oriented toward teaching broad, flexible tools and concepts that are not tied to any one platform or program. Each module ends with a culminating task (like a podcast or short film), and students will be able to draft and develop their projects as they build their skills over each lesson.

## Course Requirements

Grade Level - 9 - 12

Duration - 1 Semester

Materials - Printer, Camera, Scanner (optional), Audacity, GIMP Inkscape, DaVinci Resolve (free version), Pencil2D, Blender, GDevelop, Piskel

## DIGITAL PHOTOGRAPHY 1

Understanding the tools available opens the possibilities to create images with impact. In Digital Photography, students will study the history of photography as well as the basic operation of a digital camera. As they are introduced to different styles of photography and photographers, students will begin to develop artistic skills as well as their own voice through their photographs.

### Course Requirements

Grade Level - 9 - 12

Duration - 1 Semester

Materials - Digital camera (tripod, lenses, lights optional), paper, scissors, glue, access to photo manipulation software.

## ENTREPRENEURSHIP

What does it really take to own a business? Entrepreneurship will get students started in the right direction. This course explains the ins and outs of such an enterprise, giving them the confidence needed to be their own boss. Students will discover what is needed to operate a personal business from creating a plan, generating financing, and pricing products to marketing services and managing employees.

### Course Requirements

Grade Level - 9 - 12

Duration - 1 Semester

Materials - None

## FINANCIAL LITERACY

This course is designed to help students budget, keep a checkbook and filing system, deal with debt and credit, and become wiser consumers. Students will learn how money and the dynamics surrounding it affect their relationships, their lifestyles, and their retirement.

### Course Requirements

Grade Level - 9 - 12

Duration - 1 Semester

Materials - None

## GAME DESIGN 1

Students will tap into their creative and technical skills as they learn about the many aspects involved with designing video games. They will learn about video game software and hardware, various gaming platforms, necessary technical skills, troubleshooting and internet safety techniques, and even the history of gaming. Students will even have the opportunity to create their very own plans for a 2D video game!

## Course Requirements

Grade Level - 9 - 12

Duration - 1 Semester

Materials - None

## GRAPHIC DESIGN

Graphic Design is an introduction to elements of design, spatial relationships, typography and imagery as they apply to practical visual solutions for self-promotion, resumes, logo design, Web design, and sequential systems. In this course, the student explores the basic foundations of design through a series of visual projects that explore the principles and elements of design. Students will work both with analog and digital media as they explore two-dimensional and three-dimensional design along with color theory. This course will help develop and explore a student's ability to communicate visually.

### Course Requirements

Grade Level - 10 - 12

Duration - 1 Semester

Software Needed (Choose One);

- Adobe Illustrator (there is a cost associated, Mac OS X, Windows)
- Adobe Photoshop (there is a cost associated, Mac OS X, Windows)
- GIMP (free downloadable, Mac OS X, Windows, GNU/Linux)
- Pixlr (free browser-based program, Mac OS X, Windows, GNU/Linux, Chrome OS)

Materials - Triangle, Exacto knife, Markers, Pencil, Good paper note pad, Colored pencils, Dotted line paper, Glue stick, Ruler, Scanner or camera so you can transmit photos/images of your finished work.

Technical Requirements - Students will need a computer or laptop for this course; tablets are not sufficient.

## HEALTH SCIENCE: NURSING

Nursing is an in-demand career, perfect for someone looking for a rewarding and challenging vocation in the healthcare sector. With a strong focus on patient care, a nurse must be skilled in communication, promoting wellness, and understanding safety in the workplace. In Health Science: Nursing, you will explore communication and ethics, anatomy and physiology, and the practice of nursing. Learn how to build relationships with individuals, families, and communities 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 - 10 - 12

Duration - 1 Semester

Materials - None

## INTRODUCTION TO AGRISCIENCE

How can we make our food more nutritious? Can plants really communicate with each other? These are just two of the questions tackled in Introduction to Agriscience. From studying the secrets in corn roots to examining how to increase our food supply, this course examines how agriscientists are at the forefront of improving agriculture, food production, and the conservation of natural resources. In Introduction to Agriscience, 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 - 9 - 12  
Duration - 1 Semester  
Materials - None

## INTRODUCTION TO BUSINESS

This course introduces students to the basic business concepts that will help them understand how a business survives in today's economy and the role that consumers play in the same economy. Students will learn how to balance a checkbook, save for the future, and use credit wisely. Students will also learn how to create a resume and how to participate in a job interview.

### Course Requirements

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

## JOURNALISM

This course is designed to prepare you to become a student of journalism and media. The work we do here will equip you with the critical skills you must have to succeed in high school media, college media, and beyond. We will read a variety of journalistic material and do a great deal of news writing. We will also look at journalism from legal, ethical, and historic vantage points. Expect to complete numerous writing activities in a variety of styles including editorial, hard news, feature, review, and more. If you participate actively, you will gain tremendous skills that will serve you for the rest of your life. Individual and group project will also be a part of this class. This course is project-based and does not include traditional tests; unit level understanding is assessed through unit projects.

### Course Requirements

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

## LAW & ORDER

Imagine if there were no laws and people could do anything they wanted. It's safe to say the world would be a pretty chaotic place! 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. Laws are essential to preserving our way of life and must be established and upheld in everyone's best interest. In Law and Order: Introduction to Legal Studies, students will delve deeper into the importance of laws and consider how their application affects us as individuals and communities. Through understanding the court system and how laws are enacted, students will learn to appreciate the larger legal process and how it safeguards us all.

### Course Requirements

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

## MEDIA & COMMUNICATION

From banner ads to billboards, newspaper articles, and Facebook feeds, people are constantly sharing ideas. This course looks at the many facets of mass media. Students will learn how the media shapes every aspect of our lives. The course examines the role of newspapers, books, magazines, radio, movies, television, and the growing influence of Facebook, YouTube, and Twitter.

### Course Requirements

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

## MEDICINE

This course provides students with an introduction to healthcare, with emphasis on modern, clinical medicine. Students review basic human anatomy and physiology, then study major health concerns affecting people in the U.S. and the world. This comprehensive, 10-unit course examines such topics as infectious diseases, cancer, traumatic injuries, and healthcare career opportunities.

### Course Requirements

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



## SPORTS AND ENTERTAINMENT MARKETING

The Sports and Entertainment Marketing 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 multi-billion-dollar sports and entertainment industry. Learn how professional athletes, sports teams, and famous entertainers are marketed as commodities and how the savvy people who handle these deals can become very successful. This course will show students exactly how things work behind the scenes of a major entertainment event and how they can be part of the act.

### Course Requirements

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

## VETERINARY SCIENCE

Veterinary Science will show students how to care for domestic, farm, and wild animals and diagnose their common diseases and ailments. Learn how different veterinary treatments are used and developed to improve the lives of animals and, as a result, the lives of those people who treasure them.

### Course Requirements

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

## 3D MODELING

Students will gain a deeper understanding of graphic design and illustration as they use 3D animation software to create virtual three-dimensional design projects. Students will hone in on drawing, photography, and 3D construction techniques and develop the skills needed to navigate within a 3D digital modeling workspace

### Course Requirements

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

# HEALTH & P.E.

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## HEALTH

### Semester A

In this course, students acquire the knowledge and skills they need to lead a healthy life. Semester A focuses on the impact of personal decisions on the student's own health. Students learn how to find, evaluate, and use reliable information related to a variety of health topics. They also study the basic science behind nutrition, exercise, stress, and psychology, and examine how these factors affect a person's overall health. Each lesson in the course guides students in applying what they have learned in the lesson to their own lives and choices—and gives them a chance to discuss the topic with peers and instructors.

### Semester B

Semester B focuses on the developmental aspects of being human and healthy. Students learn about some of the more dramatic changes that the human body experiences from birth to death. They explore topics related to aging and sexuality 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 - 9 - 12  
Duration - 2 Semesters  
Materials - None

## PHYSICAL EDUCATION A & B

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

### Course Requirements

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



# APPENDIX A

## MATERIALS AND READING LIST

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

### Basic School Supplies required for KG to Grade 5

The list below details the school supplies required to supplement the Grade Level Materials Kits.

Colored Pencils
Composition Notebooks, QTY 4
Glue
Highlighter, Yellow
Marker, Black Permanent
Paint Brushes
Pencils (12pk)
Ruler
Scissors
Scotch Tape
Watercolor Paints palette of 6 colors

### Grade KG Materials

The list below details the materials required for KG.

Alfalfa seeds 1/2 teaspoon
Beads (caution: buttons would be a choking hazard), QTY
Bean seeds, Lima, QTY 8
Blocks (Lego, building blocks, etc.), QTY 16
Cardboard, 8.5" X 11", QTY 2
Crayons (64ct)
Coin, Dime (Caution: Choking hazard), QTY 1
Chalk, sidewalk, 1 piece
Cup, clear plastic, 12 oz (drinking glass)
Cups, foam coffee, 8 oz
Dowel, 12" X 3/8"
Flashlight, easy to take apart standard type
Iron filings, 3 cc
Magnets, 1 each of bar type and horse shoe type
Maple sugar, 1 tablespoon
Modeling clay, about 2.5 lbs.
Paper plate, 9", QTY 5
Pipe cleaners in various colors, QTY 26 total
Pots, starter peat pots (includes soil), QTY 5
Salt, 1 cup
Seeds, flowers, QTY 10
String, 9'
Tacks / pushpins, QTY 26
Bag of dry beans, QTY 100
Beads in three colors, 1/8" to 3/16" wide, QTY 30 of each color
Bean seeds, Scarlet runner, QTY 20
Coin, Pennies (Caution: choking hazard) QTY10
3x5 Index Cards (100pk)
Cloth, (as a cape), 22" X 32"
Coin, Nickels (Caution: Choking hazard), QTY 5
Cotton balls, 1.25 cups
Cup, clear plastic, 9 oz (glass tumbler)
Deck of cards, (like kid's Crazy 8s)
Felt, 8" X 8"
Garden stakes, 3' to 4' long, QTY 3
Jar, wide mouth, 16 to 32 oz
Magnifying glass, 50 to 75 mm
Mixture of soil, sand and peat, 1 cup
Nails, zinc 2" to 2.5", QTY 3
Paper towel to use as blotter paper, 2 sheets
Plastic, vinyl, 6" X 6"
Rubber band, thick, 3" long
Sand or glitter, 1 teaspoon
Straws, clear drinking, QTY 6
Sunflower seeds (to plant), QTY 25
Toothpicks, QTY 10

Poster Board (8.5 x 11, 9 pieces)
Watercolor paper, 9" X 12", QTY 2
Variety of containers
Textured fabrics and materials of different kinds (velvet, wool, sandpaper, bubble wrap, etc).
Garden fork
Apples

Pen, black click (able to be taken apart)
Multi-Color Construction Paper
Large piece of display board, about 36" X 48"
Sweet potato or avocado seed
Potato

## Grade 1 Materials

The list below details the materials required for Grade 1.

Bags, plastic zip close type, quart size, QTY 2	Balance scale (small handheld)
Ball, indoor safe, about 2"-3"	Bean bags, QTY 2
Beans, as counters, QTY 100	Bird seeds, 1 cup
Blindfold (bandana)	Bowl, foam, 20 oz
Bowl, foam, 12 oz	Box, cardboard, shoe box size
Thermometer, outdoor, with Celsius and Fahrenheit, measurements	Cardstock printed with coins (included in the supply kit) or coins
Cardstock printed with sock shapes to cut out	Clay, 4-6 oz
Compass, 25 mm or larger size	Container, about 2 oz
Cotton balls, 1-2 cups	Deck of cards such as "Go Fish" game
Dowel, 8" X 5/8"	Drinking glass, plastic 12 oz
Forceps or tweezers	Globe, inflatable
Hole puncher, single	Honey, small packet
Inflatable ball (soccer ball size)	Inflatable beach ball, about 6"
Jump rope, kid's size	Magnet, with center hole
Magnifying glass, 50mm or larger	Nails, 1.5"-2", QTY 3
Paper clips, QTY 12	Paper towels (blotting paper), 6 sheets
Paper, 8 ½" X 11", QTY 10	Paper, legal size, QTY 12
Paper, poster, about 11" X 17", 3 Pieces	Paper roll of blank white, 24" X 10'
Pin, sewing type	Pine cones, QTY 3
Plate, plastic, 9"	Potting soil, 1.5 cups
Push pins, QTY 3	Starting pots, 2 ½" X 2 ½", QTY 2
Straw, plastic drinking	String, cotton 16'
Crayons (64ct)	Tomato seeds, QTY 8
Cardboard, about 11" X 17"	Multi-Color Construction Paper
Toothpicks, QTY 10	Wax paper, 12" pieces, QTY 4
Wood dowel (or stick), 12"	Yarn, 12' for 4 pieces of finger knitting
Yarn, 8", 6 pieces	Empty toilet paper roll
Socks (from family laundry)	Hard boiled eggs, QTY 7
Large box (big enough for the student to sit in)	Rope for tug of war
Gallon or half gallon plastic milk jug	Hat
Flowers or plants for pressing	Old sheet or towel
Soapy water	Iron
Pre-made calendar or available calendar	Peanut butter
Empty milk carton	1 cup of Crisco or shortening
Water	Large pot, pitcher, or sink filled with water
Marbles (optional)	Play Dough (optional)
Magazines (optional)	Popcorn (optional)
Toys (optional)	

## Grade 2 Materials

The list below details the materials required for Grade 2.

Bag of Beans, for counters, about 130 beans
Birdseed, 1 cup
3x5 Index Cards (100pk)
Hole punch, single
Rubber bands, colored
Globe (inflatable)
Pots for plants, 2.5" square, QTY 3
KoKo's Kitten (Francine Patterson) Book
Popsicle Sticks (craft sticks), QTY 2
Iron
Large grapefruit or orange
Old sheet or towel

String, 13 feet
Towel
Multi-Color Construction Paper
Wax Paper, 10" X 12", QTY 10
Push pins, tall, QTY 25
Seeds, beans, QTY 6
Yarn, red, blue and green, 8' each
Yarn, 8", QTY 9
Potting soil, about 2 cups
Small objects for measuring (string, paperclips, etc.)
Leaves (evergreen and / or deciduous)
Gum, about 10 pieces

## Grade 3 Materials

The list below details the materials required for Grade 3.

Balloons, 9", QTY 2
Brass Brad
Cardboard, 8.5" X 11", QTY 3
Clay, any color, 4 oz non-drying
Construction paper, Blue 3 hole pre-punched, 7 pages
3x5 Index Cards (300)
Cups, foam, 3 to 6 oz, QTY 2
Cups, plastic clear, 12 oz, QTY 2
Eye dropper
Foam rod, round ½" X 20'
Globe, inflatable, 10" to 14"
Jar with lid, 6 oz to 12 oz
Liquid Measuring Cup, 4 cups / 1 liter
Nail, 2 ½"
Paper clips, large, QTY 12
Plate, paper, 9"
Plate, small paper 6", QTY 2
Rubber band, 3"
Sponge, standard, 2" x 2" x ½" (clean)
Spoon
String, cotton, 10 feet
Tape measure, 60" cloth with metric and inches
Toothpicks, box of 100
Yarn, 14 feet
Wire hanger
Gallon job
Body temperature thermometer
Lamp from your home or school
Ice cubes
Avocado or sweet potato
Flower

Pitcher (Gallon)
Plastic bowl, 12 oz
Clay, air dry, 2.5 pounds
Clear plastic or plastic wrap, 6" X 6"
Printed sheet of coins with 50 pennies, 4 dimes, 1 nickel, 1 quarter, 1 dollar bill, and 30 counters
Tempera Paint (R,Y, B) with small roller
Cups, paper, 3-5 oz, QTY 3
Cups, plastic clear, 9 oz, QTY 3
Foam craft material, 8.5" X 11"
Food coloring (red and green), 5 mL each
Hole puncher, single hole
Liquid Measuring Cup, 1 cup (8 oz)
Magnifying glass, 2x to 10 x
Outdoor thermometer / general purpose, F/C
Permanent Marker, black
Plate, plastic, 9"
Cotton balls, about 1 quart
Sheets of Hundred Blocks, QTY 13
Sponge, standard, 2" x 4" x ½"
Steel washer, 7/16 - ½"
Tablespoon
Teaspoon
Watercolor paper
Yarn, ball, 30-60 feet
Cylinder object such as a crayon
Meat thermometer
Dictionary print or online
Gallon container or similar bowl or pan
Globe and / or world maps that indicate terrain (Google maps)
Celery stalk
Leaf

## Grade 4 Materials & Reading Lists

The list below details the materials and reading list required for Grade 4.

### Reading List

Semester A
A Tale of Despereaux by Kate Dicamillo
Bud, Not Buddy by Christopher Paul Curtis
Tales of a Fourth Grade Nothing by Judy Blume

Semester B
Wringer by Jerry Spinelli
Pictures of Hollis Woods by Patricia Reilly Giff
Shiloh by Phyllis Reynolds Naylor

### Materials

Aluminum Foil, about 12" X 10"
Bags, 4" X 6" 4 mil, zip-close plastic, QTY 3
Battery, D
Box for a diorama, shoebox size
Chalk, ½ Teaspoon, ground up
Clay, modeling, 2 oz each (blue, brown, green, white, gray, yellow)
3x5 Index Cards (100pk)
Craft sticks, small, wooden, QTY 4
Cups, 12 oz clear plastic, QTY 8
Dirt, ½ teaspoon
Epsom salt, 12 oz
Flour, 1.1 cup
Food coloring (any color will work)
Gumdrops, 5 of one color, 1 of each of 4 colors
Indoor holiday light, 1 bulb with wires attached
Liquid measuring cup, 1 cup / 250 ml size (metric & standard)
Measuring spoon, ½ teaspoon
Nail, 3", zinc (galvanized nails are zinc coated)
Pebbles, 1 cup
Plate, white foam, 9", QTY 1
Potting soil, 1.5 quart
Salt, 1.75 cups
Soap, ½ teaspoon liquid
Socks, 1 pair
Spoon, large mixing
Straw, clear plastic drinking
Sugar cubes, QTY 6
Thermometer, 6"

Bag, clear plastic, 1 gallon, 2 mil, zip lock
Balloons, 9", QTY 3
Bowl, 12 oz foam, QTY 4
Car, small toy
Clay, air dry, 8 oz
Container, plastic, 6 quarter, QTY 2
Highlighters - 4 Colors, No Yellow
Cup, clear plastic, 9 oz
Cups, paper, about 3 oz, QTY 4
Drawing paper, 8.5" X 11, 28 pound, QTY 6
File folders, manila, tabbed, QTY 7
Foam, plastic, 2" X 3" X ½"
Inflatable globe
Index cards, 4" X 6", QTY 30
Jars with lids, clear plastic, 6 oz, QTY 8
Match, QTY 3
Measuring spoon 1 tablespoon
Oil, ½ teaspoon cooking
Pitcher ½ gallon
Plywood, about 5" X 11"
Protractor
Sand, 1.25 quart
Soap, ½ teaspoon solid laundry
Sponge, 2" X 2" X ½" (simple, inexpensive sponge with no scrubber side)
Straight pin
String, light cotton, 6'
Sugar, 3 teaspoons of regular granular
Thumbtacks, QTY 2 metal



Toothpicks, QTY 16
Wax paper, 12" long, QTY 7
Wire, copper, 3", bare thick 10-14 gauge
Poster Board, 11"x17", 3 Pieces
Graph paper
House plant
Lamp from your home or school
Rubbing alcohol
Eggs, QTY 2
Bottle of soda, 2-Liter
Leaf, large
Ice cubes, 2-3 trays
Metal and non-metal objects
Lemon
Materials to build landscape

Vinegar, 4.2 oz
Wire, copper with insulation, ends stripped, 20 gauge 12"
Wood block, about 1.5 "X 3.5" X 4"
Dictionary print or online
Bottle, 2-Liter, plastic
3 liquids (pint of milk, bottle of water, can of juice,
Water bottle
Orange juice can of frozen concentrate
Watch or clock
Alcohol, ½ teaspoon rubbing
Materials for wrapping cups (such as bubblewrap,
Tap water
Cardboard, heavy paper, and/or modeling clay
Leaves and grass, collected

## Grade 5 Materials & Reading Lists

The list below details the materials and reading list required for Grade 5.

### Reading List

Semester A	Semester B
Because of Winn Dixie by Kate Dicamillo	Maniac Magee by Jerry Spinelli
Number the Stars by Lois Lowry	Out of the Dust by Karen Hesse
The Watsons Go to Birmingham by Christopher Paul Curtis	Island of the Blue Dolphin by Scott O'Dell

### Materials

Comb, 4-inch plastic	Pennies, QTY 8
Balloons, 12", QTY 2	Cardboard, 8.5" X 11", QTY 2
Cheesecloth, 8" X 8", QTY 2	Clothespin
Container, 6 qt plastic shoebox size (to hold the water)	Containers, small plastic with similar volume and different shapes, QTY 3
Dice, QTY 2	Dried mint leaves
Dried sweet basil	Fabric, soft such as lightweight flannel, 9" X 9", QTY
Flashlight	Ground cloves
Needle and thread	Paper towel, 1 sheet
Paper, drawing, 3 sheets	Rubber bands, 3"
Small mirror, about 2" X 3"	Tape measure, cloth
Three types of seeds: corn (maize), bean (lima or another large bean), and radish	Waxed paper, 4" X 3"
Glass, with thin rim	Ziploc or plastic lunch bag, quart size
3x5 Index Cards (10)	Highlighter - Blue
Masking Tape	Multi-Color Construction Paper
Poster Board 8.5"x11"	Jars with lids, clear plastic, 6 oz, QTY 8
Calculator, handheld or online	Rectangular prisms of any size from around your home or school (tissue box, shoe box,
Graph paper can be printer	Paper towel tube
Rose petals	

## Grade 6 Reading Lists

The list below details the reading list required for Grade 6

Required Novels
Watson Go To Birmingham
The Giver

Optional Novels (Choose 2)
The House of Dies Drear
Walk Two Moons
The Westing Game
Freak the Mighty
Seedfolks
True Confessions of Charlotte Doyle

## Grade 7 Reading Lists

The list below details the reading list required for Grade 7.

Required Anthology
Poetry Speaks Who I AM - ISBN-10:1402210744 ISBN-13:978-1402210747
Required Novels
Julie of the Wolves
The Outsiders

Optional Novels (Choose 2)
Where the Red Fern Grows
Nothing but the Truth
The Cay
A Christmas Carol
A Day No Pigs Would Die

## Grade 8 Reading Lists

The list below details the reading list required for Grade 8.

Required Anthology
The Pearl
Diary of a Young Girl

Optional Novels (Choose 2)
My Brother Sam is Dead
Across Five Aprils
The Ox-Bow Incident
That was Then, This is Now
Roll of Thunder, My Cry

## Grade 9 Reading Lists

The list below details the reading list required for Grade 9.

### Reading List

Required Novels
Romeo and Juliet (Semester A)
To Kill a Mockingbird (Semester B)

Optional Novels (Choose 1 per semester)
The Old Man and the Sea
House on Mango Street
Fahrenheit 451
The Odyssey
Ender's Game
Speak of Mice and Men

## Grade 10 Reading Lists

The list below details the reading list required for Grade 10.

### Reading List

Required Novels
Animal Farm (Semester A)
Night (Semester B)

Optional Novels (Choose 1 per semester)
The Catcher in the Rye
The Bean Trees
All Quiet on the Western Front
Lord of the Flies
Twelfth Night
Farewell to Manzanar
Antigone

Prerequisites -Language Arts 9 or equivalent

## Grade 11 Reading Lists

The list below details the reading list required for Grade 11.

Required Novels
The Scarlet Letter (Semester A)
The Great Gatsby (Semester B)

Optional Novels (Choose 1 per semester)
Death of a Salesman
A Farewell to Arms
My Antonia
A Lesson Before Dying
Black Boy
The Island
Adventures of Huckleberry Finn

## Grade 12 Reading Lists

The list below details the reading list required for Grade 12.

In this course, you are required to read two novels from the You-Choose list **in addition** to the works that are listed as required reading below.

Required Novels
Jane Eyre by Charlotte Bronte (Semester A)
The Grapes of Wrath by John Steinbeck (Semester B)
The Alchemist by Paulo Coelho (Semester B)
The Metamorphosis by Franz Kafka (Semester B)
Hamlet by William Shakespeare (Semester B)

You Choose Novels
1984 by George Orwell
Wuthering Heights by Emily Bronte
Brave New World by Aldous Huxley
Othello by Julius Lester
One Hundred Years of Solitude by Gabriel Garcia Marquez
A Tale of Two Cities by Charles Dickens
Cry, the Beloved Country by Alan Paton
Frankenstein by Mary Shelley





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