



JEDI Virtual School Elementary Course Offerings 2016-2017

JEDI online courses are available to districts needing appropriate course placement for accelerated or remedial elementary, middle, and high school level students. Using the online venue, students remain in their assigned buildings but can access courses appropriate to their educational needs and plan. Grade levels listed are suggested.

SPECIAL NOTE ABOUT JEDI COURSE DESCRIPTIONS---The descriptions you find in this booklet are generic. JEDI uses multiple vendors and the descriptions from vendor to vendor may vary slightly. Course availability may change at any time. If you want to see a course description that is more detailed, please let your Student Services Coordinator know.

*Indicates a ONE SEMESTER course- offered either semester.
 [1, 2] and [A, B] indicate semester, and varies by vendor.
 Semester 1= [1] or [A]. Semester 2= [2] or [B].

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K12 Elementary Program

JEDI partners with K12 to bring offer our students elementary curriculum offerings for students in preschool through grade 5. The K12 curriculum brings lessons to life with a rich mixture of online and offline teaching tools, including interactive animations, award-winning printed books with beautiful illustrations and narrative, original CDs and videos, and materials for hands-on experiments. In addition, lesson plans for each subject are integrated, so your child may be reading literature from the same time period as the art or history lesson he or she is studying. Lessons are followed by assessments, so you can be sure that your child has mastered a particular area before moving on. Our individualized approach means your child can go as fast or slow as needed. The online assessments are integrated with the planning and progress tools, making it easy to find the right pace by subject and to stay on track. Course materials will be available in various formats, which may include physical and/or digital materials.

EmbarK¹²

JEDI has partnered with EmbarK¹² to help preschoolers from ages 3-6 prepare for Kindergarten, and offers that strong academic foundation they'll need for future years. Created by K12, EmbarK¹²:

- Offers 800+ fun, safe, and easy-to-use games and activities
- Includes core subjects: math, language arts, science, social studies, art, and music
- Promotes mathematical reasoning, basic literacy, and scientific observation
- Is based on the latest early learning research and is aligned with standards
- Boosts early learning skills and sparks excitement in eager, young minds
- Allows parents to be actively involved in preparing your child for kindergarten. The program's fun preschool curriculum:
- Features collaborative learning between you and your child
- Includes more than 1,200 online and hands-on activities and games, flash cards, manipulatives, and classic children's literature
- Helps kids master mathematical reasoning, basic literacy, scientific observation, and investigative skills

The EmbarK¹² incorporates social studies, art, math, language arts, science, and music lessons centered around 18 different themes:

- I Am Special
- Family and Friends
- Weather and Calendar
- My Five Senses
- Hats, Shoes, and More
- How Big?
- Our World
- Looking at Animals
- Is It Real?
- Where We Live
- Lunchtime
- People and Places
- Green All Around
- Changing Seasons
- From Here to There
- Earth and Sky
- What Time Is It?

- American Symbols and Holidays

Due to the structure of the preschool curriculum, course descriptions are unavailable. To preview the EmbarK¹² curriculum and course structure, please contact your student services coordinator for demo login information.

Students will need pencils, index cards, markers, speakers, and a microphone for successful completion of this program.

Kindergarten Curriculum

Language Arts K

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

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

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

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

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

In addition to the required materials provided by K12, students will also need to acquire additional works of literature, including *The Rooster Crows—A Book of American Rhymes and Jingles* by Maud and Miska Petersha and *Rhyme Time* by Tomie dePaola. Finally, other items easily found in a typical home will be required for successful completion of Language Arts K.

Prerequisite: None

Grade K

Credit:

Math+ K

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

Other items easily found in a typical home will be required for successful completion of Math+K.

Prerequisite: None

Grade K

Credit:

Science K

Kindergarten students begin to develop observation skills as they learn about the five senses, the earth's composition, and the basic needs of plants and animals. Students will explore topics such as:

My Body—the five senses; major organs and systems

Plants and Animals—needs and habitats; conservationist Jane Goodall

Measurement—size, height, length, weight, capacity, and temperature

Matter—solid, liquid, and gas

The Seasonal Cycle—changing weather in the seasons

Our Earth—geographical features; taking care of the earth; environmentalist Rachel Carson

Motion—pushes and pulls; magnets

Astronomy—the earth, sun, moon, and stars; exploring space; astronauts Neil Armstrong and Sally Ride

Some lessons require additional resources, including common household items and books that are readily available online or in your local library:

What's Alive? by Kathleen Weidner Zoehfeld

Animals in Winter by Henrietta Bancroft & Richard G. Van Gelder

The Big Dipper by Franklyn Branley

My Five Senses by Alik

Inflatable globe (Grades K-2)

Mirror

Prerequisite: None

Grade K

Credit:

History K

The kindergarten History program teaches basics of world geography with the seven continents.

Students will:

Explore the Great Barrier Reef in Australia, the frozen expanses of Antarctica, and the grasslands and rain forests of Africa

Learn what it is like to climb the Andes and ride with the gauchos

Become familiar with the landmarks, people, and stories of many countries in Europe and Asia, as well as North America, including Canada and Mexico

Learn about American History through biographies of famous figures, from Christopher Columbus and the Pilgrims to Thomas Jefferson and Sacagawea, from Harriet Tubman and Susan B. Anthony to Abraham Lincoln and Theodore Roosevelt, from Thomas Edison and the Wright brothers to Cesar Chavez and Martin Luther King, Jr.

Prerequisite: None

Grade K

Credit:

Art K

Kindergarten students are introduced to the elements of art—line, shape, color, and more. Students will:

Learn about important paintings, sculpture, and architecture

Study the works of artists like Henri Matisse, Joan Miró, Rembrandt van Rijn, Ando Hiroshige, Paul Cézanne, Pablo Picasso, and Faith Ringgold

Create artwork similar to works they learn about, using many materials and techniques, including brightly colored paintings inspired by Henri Matisse, and mobiles inspired by Alexander Calder

Prerequisite: None

Grade K

Credit:

Preparatory Music

Kindergarteners learn about music through lively activities, including listening, singing, and moving.

Through games and folk songs from diverse cultures, students learn musical concepts such as high and low, or loud and soft. Creative movement activities help students enjoy the music of composers such as Grieg and Haydn. Students will:

Sing along with folk songs

Practice moving to music

Listen actively to different kinds of music

Understand concepts such as high and low, fast and slow, long and short, loud and soft

Identify and contrast beat and rhythm

Prerequisite: None

Grade K

Credit:

First Grade Curriculum

Language Arts 1

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

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

Literature and Comprehension: The K12 Language Arts Literature and Comprehension program consists of 24 units with reading selections from the Classics anthology, nonfiction magazines, trade books, and other books students choose for themselves. Students will listen to and read a variety of poetry, fiction, and nonfiction to develop their reading comprehension skills.

Handwriting: Students will further develop their handwriting skills through Handwriting Without Tears. In Semester 1, students will work in the My Printing Book. In Semester 2, students will practice handwriting on their own using the supplied lined paper.

Spelling: There are 18 units in K12 Spelling, which begins in the second semester of Grade 1. Each unit contains five lessons. The first lesson of a unit introduces new Spelling words. In the second and third lessons, you and your students work together to practice the spelling words introduced in the first lesson. There is an online review in Lesson 4 and an offline assessment in Lesson 5. Students will master the spelling skills needed to read and write proficiently.

Vocabulary: K12 Vocabulary exposes students to a wide variety of words. Students will learn, review, and practice words online. There are 18 units in K12 Vocabulary. In the first 8 lessons of each unit, students will study 3 sets of related words. Lesson 9 of each unit is a review of all the words. The 10th lesson is always a Unit Checkpoint, testing students on all the words they studied.

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

In addition to the required materials provided by K12, students will also need to acquire additional works of literature, including Listen My Children: Poems for First Graders, Ready, Set, Read, Classics for Young Readers, and other items easily found in a typical home.

Prerequisite: None

Grade 1

Credit:

Math+ 1

This research-based course focuses on computational fluency, conceptual understanding, and problem-solving. The engaging course features new graphics, learning tools, and games; adaptive activities that help struggling students master concepts and skills before moving on; and more support for Learning Coaches to guide their students to success. This course for students in Grade 1 extends their work with place value to numbers through 100, emphasizing fluency of addition and subtraction facts, and focusing on number sentences and problem solving with addition and subtraction. Students begin work with money, telling time, ordering events, and measuring length, weight, and capacity with non-standard units. Students identify attributes of geometric figures and also extend their work with patterns and data, including representing and comparing data.

Other items easily found in a typical home will be required for successful completion of Math+K.

Prerequisite: None

Grade 1

Credit:

Science 1

Students learn to perform experiments and record observations, and understand how scientists see the natural world. They germinate seeds to observe plant growth, and make a weathervane.

Students will explore topics such as:

Matter—states of matter; mixtures and solutions

Weather—cloud formation; the water cycle

Animal Classification and Adaptation—insects; amphibians and reptiles; birds; mammals

Habitats—forests, deserts, rain forests, grasslands, and more; naturalist John Muir and conservation

Oceans—waves and currents; coasts; coral reefs and kelp forests; oceanographer Jacques Cousteau

Plants—germination, functions of roots, stems, flowers, chlorophyll, and more

Human Body—major systems; Elizabeth Blackwell, the first woman doctor

Light—how light travels; reflections; inventor Thomas Edison

Prerequisite: None

Grade 1

Credit:

History 1

This course kicks off a program that, spanning the elementary grades, provides an overview of world geography and history from the Stone Age to the Space Age. Through lively stories and activities, students will:

Meet nomadic children in ancient Mesopotamia who settle in the Fertile Crescent

Explore the great pyramids in ancient Egypt, and meet mighty pharaohs such as King Tut

Learn about the historical origins of Judaism through stories of Abraham, Joseph, Moses, and David

Learn about the origins of democracy in ancient Greece, as well as the first Olympic games, the Trojan

War, Alexander the Great, and the marvelous myths of the ancient Greeks

Visit ancient India and hear stories of the historical origins of Hinduism and Buddhism

Travel down great rivers in ancient China, hear the wisdom of Confucius, and witness the building of the Great Wall

Prerequisite: None

Grade 1

Credit:

Art 1

Following the timeline of the K12 History program, first grade Art lessons introduce students to the art and architecture of different cultures, such as Mesopotamia and ancient Egypt, Greece, and China.

Students will:

Identify landscapes, still-lives, and portraits

Study elements of art, such as line, shape, and texture

Create artwork similar to works they learn about, using many materials and techniques—inspired by Vincent van Gogh's *The Starry Night*, students paint their own starry landscape using bold brushstroke, and they make clay sculptures inspired by a bust of Queen Nefertiti and the Great Sphinx

Students will need to acquire tempera paintbrushes in sizes flat bristle 1", medium #4, and large #8; 12 colors of oil pastels, 4 colors of clay, and a tempera paint set.

Prerequisite: None

Grade 1

Credit:

Beginning 1 Music

Beginning 1 Music is for students of first grade age who are continuing with K12, as well as students of second grade age who are new to K12. In this course, traditional games and folk songs from many cultures help students begin to read and write simple melodic and rhythmic patterns. Students are introduced to the instruments of the orchestra through Prokofiev's classic *Peter and the Wolf*. They explore how music tells stories in *The Sorcerer's Apprentice* and are introduced to opera through a lively unit on Mozart's *Magic Flute*. Students will:

Sing along with folk songs

Practice moving to music

Listen actively to different kinds of music

Begin to learn how to read and write music

Learn to recognize melody in three and four note patterns

Identify rhythms in music using eighths, quarters, and rests

Begin to learn about the instruments of the orchestra

Learn how different kinds of music, such as tone poems and operas, can tell stories

Prerequisite: None

Grade 1

Credit:

Second Grade Curriculum

Language Arts 2

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

Literature and Comprehension: A guided reading approach builds comprehension strategies and gradually transitions students to independent reading assignments. Leveled reading selections progressively expose students to new challenges including greater length, more complex content, and new vocabulary. The emphasis is on classic literature from many cultures, poetry, and nonfiction articles. Students also make their own reading choices to help foster a lifelong love of reading.

Writing Skills: Students learn about parts of speech, usage, capitalization, and punctuation, then apply this knowledge as they write sentences and paragraphs. Students are introduced to the process of writing, as they pre-write, draft, revise, and proofread their work before they share it with others.

Written products include letters, poems, literature reviews, research reports, and presentations.

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

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

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

Students will need to acquire additional works of literature, including *Surprises*, a book of poems selected by Lee Bennett Hopkins and *Listen, My Children: Poems for Second Graders*, from Core Knowledge. Other items easily found in a typical home will also be required for this course.

Prerequisite: None

Grade 2

Credit:

Math+ 2

This research-based course focuses on computational fluency, conceptual understanding, and problem-solving. The engaging course features new graphics, learning tools, and games; adaptive activities that help struggling students master concepts and skills before moving on; and more support for Learning Coaches to guide their students to success. This course for students in Grade 2 focuses primarily on number concepts, place value, and addition and subtraction of numbers through 1,000. Special emphasis is given to problem solving, inverse operations, properties of operations, decomposition of numbers, and mental math. Students study money, time, and measurement; geometric figures; analyzing and displaying data with new representations; and determining the range and mode of data. Early concepts about multiplication, division, and fractions are introduced.

Students will need other items easily found in a typical home.

Prerequisite: None

Grade 2

Credit:

Science 2

Students perform experiments to develop skills of observation and analysis, and learn how scientists understand the world. They demonstrate how pulleys lift heavy objects, make a temporary magnet and test its strength, and analyze the parts of a flower. Students will explore topics such as:

Metric System—liters and kilograms, and how scientists use them

Force—motion and simple machines; physicist Isaac Newton

Magnetism—magnetic poles and fields; how a compass works

Sound—how sounds are made; inventor Alexander Graham Bell

Human Body—cells; the digestive system

Geology—layers of the earth; kinds of rocks; weathering; geologist Florence Bascom

Life Cycles—plants and animals

Some lessons require additional resources, including common household items, and books that are readily available online or in your local library:

What Makes a Magnet? by Franklyn Branley

Why Frogs Are Wet by Judy Hawes
Let's Go Rock Collecting by Roma Gans
Fossils Tell of Long Ago by Alike
What Happens to a Hamburger? by Paul Showers
Prerequisite: None Grade 2

Credit:

History 2

Second graders continue their investigation (spanning grades 1–4) into history from the Stone Age to the Space Age. Through lively stories and activities, second graders will:

Explore ancient Rome and meet Julius Caesar
Learn about the beginnings of Christianity during the Roman Empire
Hear stories of the raiding and trading Vikings
Appreciate the achievements of early Islamic civilization

During the early Middle Ages in Europe, meet knights in armor, and hear stories of St. George, Robin Hood, and Joan of Arc

Visit the medieval African kingdoms of Ghana, Mali, and Songhai
Travel the Silk Road across China, and meet the powerful emperor, Kublai Khan
Learn about the fighting samurai and the growth of Buddhism and Shintoism in feudal Japan

Prerequisite: None Grade 2 Credit:

Art 2

Following the timeline of the K12 History program, second grade Art lessons introduce students to the art and architecture of ancient Rome, medieval Europe, Islam, Mexico, Africa, China, and Japan.

Students will:

Examine elements and principles of art, such as line, shape, pattern, and more
Study and create self-portraits, landscapes, sculptures, and more
Create artwork similar to works they learn about, using many materials and techniques—after studying Winslow Homer's Snap the Whip, students paint their own narrative landscape and design stained glass windows inspired by the Cathedral of Notre Dame in Paris

Students will need to acquire tempera paintbrushes in sizes flat bristle 1", medium #4, and large #8; 12 colors of oil pastels, 4 colors of clay, and a tempera paint set.

Prerequisite: None Grade 2 Credit:

Beginning 2 Music

Beginning 2 Music is for students who have completed K12's Beginning 1 Music program. Through traditional folk songs and games, students learn to read more complicated melodic patterns and rhythms. As the students listen to works by great composers, such as Vivaldi and Saint-Saens, they learn to recognize these patterns in the music. Students will:

Sing along with folk songs
Practice moving to music
Listen actively to different kinds of music
Read and write music
Learn to recognize melody in three and four note patterns
Identify rhythms in music using half notes
Become familiar with string and percussion instruments of the orchestra
Recognize duple and triple meter
Begin to understand standard musical notation

Prerequisite: None Grade 2 Credit:

Third Grade Curriculum

Language Arts 3

This course provides a comprehensive sequence of lessons introducing students to composition, vocabulary, grammar, and spelling. Lessons are designed to develop comprehension, build vocabulary, and help students become more independent readers.

Language Skills

Composition—Students practice writing as a process, as they write a narrative, a report, letters, poetry, and more

Grammar, Usage, and Mechanics—Students learn about sentence structure, parts of speech, research skills, and more

Vocabulary—Wordly Wise provides practice in word study skills, word analysis, and reading comprehension

Primary Analogies—Students develop test-taking and critical thinking skills as they connect words and ideas

Spelling—Through weekly word lists, students learn relationships between sounds and spellings

Handwriting—Handwriting Without Tears helps students develop their cursive handwriting skills

Public Speaking—Students learn and use techniques for effective oral presentations

Literature

Students develop literary analysis and comprehension skills. The emphasis is on works that embody exemplary virtues, including Greek and Norse myths, "William Tell," and episodes from *Black Beauty*. Students read works of nonfiction, as well as four novels (selected from a long list of such classics as *Charlotte's Web*, *Little House on the Prairie*, and *Henry Huggins*). A test preparation program prepares students for standardized tests.

Students will also need to acquire other items easily found in a typical home.

Prerequisite: None

Grade 3

Credit:

Math+ 3

This research-based course focuses on computational fluency, conceptual understanding, and problem-solving. The engaging course features new graphics, learning tools, and games; adaptive activities that help struggling students master concepts and skills before moving on; and more support for Learning Coaches to guide their students to success. This course for students in Grade 3 provides a quick overview of whole number addition and subtraction, but has a greater focus on whole number multiplication and division, encompassing early algebraic thinking. Decimals are studied in relationship to place value and money, and fractions are addressed through multiple representations and probability. Students are introduced to specific methods and strategies to help them become more effective problem solvers. Geometry and measurement are addressed through the study of two- and three-dimensional shapes, early work with perimeter, area, and volume, and applying measuring techniques to time, length, capacity, and weight.

Students will also need to acquire other items easily found in a typical home.

Prerequisite: None

Grade 3

Credit:

Science 3

Students learn to observe and analyze through hands-on experiments, and gain further insight into how scientists understand our world. They observe and chart the phases of the moon, determine the properties of insulators and conductors, and make a three-dimensional model of a bone. Students will explore topics such as:

Weather—air pressure; precipitation; clouds; humidity; fronts; forecasting

Vertebrates—features of fish, amphibians, reptiles, birds, and mammals

Ecosystems—climate zones; tundra, forests, desert, grasslands, freshwater, and marine ecosystems

Matter—phase changes; volume; mass; atoms; physical and chemical changes

Human Body—the musculoskeletal system; the skin

Energy—forms of energy; transfer of energy; conductors and insulators; renewable and nonrenewable

energy resources

Light—light as energy; the spectrum; how the eye works

Astronomy—phases of the moon; eclipses; the solar system; stars and constellations; the Milky Way

Prerequisite: None

Grade 3

Credit:

History 3

Continuing their investigation (spanning grades 1–4) into history from the Stone Age to the Space Age, third grade students will:

Explore the Renaissance, and meet Petrarch, da Vinci, Michelangelo, Gutenberg, Galileo, and more

Journey through the Age of Exploration with Dias, da Gama, Magellan, and more

Get to know the Maya, Aztecs, and Incas

Visit civilizations in India, Africa, China, and Japan

During England's Golden Age, meet Elizabeth I, Sir Walter Raleigh, and William Shakespeare

Explore Jamestown, Plymouth, and the thirteen colonies in Colonial America

Learn about the American Revolution

Prerequisite: None

Grade 3

Credit:

Art 3

Following the timeline of the K12 History program, third grade Art lessons introduce students to the art and architecture of the Renaissance throughout Europe, including Italy, Russia, and Northern Europe.

Students will:

Extend their knowledge of elements and principles of art, such as form, texture, and symmetrical balance

Draw, paint, and sculpt a variety of works, including self-portraits, landscapes, and still life paintings

Investigate artworks from Asia, Africa, and the Americas

Create artworks inspired by works they learn about, using many materials and techniques—after studying da Vinci's Mona Lisa, students use shading in their own drawings, and they make prints showing the features and symmetry of the Taj Mahal

Students will need to acquire tempera paintbrushes in sizes flat bristle 1", small #1, medium #4, and large #8; 12 colors of oil pastels, 4 colors of clay, and a tempera paint set.

Students will need to acquire tempera paintbrushes in sizes flat bristle 1", small #1, medium #4, and large #8; 12 colors of oil pastels, 4 colors of clay, and a tempera paint set.

Prerequisite: None

Grade 3

Credit:

Intermediate 1 Music

Intermediate 1 Music is intended for students of third-grade age or older who have completed K12 Beginning 1 and 2 Music or Introduction to Music. Through traditional folk songs and games, students learn to read and write a variety of musical patterns. They learn to play simple melodies and rhythms on the recorder. They become more familiar with the orchestra, especially the woodwind and brass families, and learn about the lives and works of Bach, Handel, Haydn, Mozart and Beethoven. Students will:

Learn to play the recorder

Sing along with folk songs

Practice moving to music

Listen actively to different kinds of music

Read and write music

Learn to recognize melody in four and five note patterns

Identify rhythms in music using sixteenths, dotted half notes, and whole notes

Recognize AB and ABA form

Become familiar with string and percussion instruments of the orchestra

Become familiar with brass and woodwind instruments

Learn about the lives and music of classical composers

Prerequisite: None

Grade 3

Credit:

Fourth Grade Curriculum

Language Arts 4

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

Language Skills

Composition—Students practice writing as a process (from planning to proofreading), as they write a report, a book review, a persuasive essay, poetry, a news article, and more

Grammar, Usage, and Mechanics—Students learn more about sentence structure, parts of speech, punctuation, capitalization, and usage. They begin sentence analysis and diagramming

Vocabulary—The Vocabulary Workshop program helps enrich students' vocabulary, develop word analysis skills, and prepare for standardized tests

Spelling—Students understand sound-symbol relationships and spelling patterns, and recognize base words and roots in related words

Literature

Students learn to identify and analyze literary elements such as character, plot, theme, and setting. The emphasis is on classic literature, including episodes from Robinson Crusoe, Gulliver's Travels, and Pollyanna; legends of King Arthur; and folktales from many lands. Students read works of nonfiction, as well as four novels (selected from a long list of such classics as The Cricket in Times Square, My Side of the Mountain, and Sarah, Plain and Tall). A test preparation program prepares students for standardized tests.

Students will also need to acquire and read works of literature from a list of books commonly found at your local library. Please contact your student services coordinator for more information.

Prerequisite: None

Grade 4

Credit:

Math+ 4

This research-based course focuses on computational fluency, conceptual understanding, and problem-solving. The engaging course features new graphics, learning tools, and games; adaptive activities that help struggling students master concepts and skills before moving on; and more support for Learning Coaches to guide their students to success. This course for students in Grade 4 moves into applications and properties of operations. Students work with simple fraction and decimal operations, which are applied in the study of measurement, probability, and data, and mathematical reasoning techniques. Students begin the study of equivalencies between fractions and decimals on the number line and early work with integers. Algebraic thinking is developed as students work with variables, coordinate graphing, and formulas in problems involving perimeter, area, and rate. Geometry is extended into greater classification of shapes and work with lines, angles and rotations.

Students will need other items easily found in the typical home.

Prerequisite: None

Grade 4

Credit:

Science 4

Students develop scientific reasoning and perform hands on experiments in Earth, Life, and Physical Sciences. They construct an electromagnet, identify minerals according to their properties, use chromatography to separate liquids, and assemble food webs. Students will explore topics such as:

The Interdependence of Life—producers, consumers, and decomposers; food webs

Animal and Plant Interactions—populations; competition; predators and prey; symbiosis; animal behavior

Invertebrates—sponges; worms; mollusks; arthropods; echinoderms

Chemistry—mixtures vs. solutions; distillation, evaporation, and chromatography

Forces and Fluids—pressure; forces in flight; density; buoyancy

Human Body—nervous system (senses, reflexes, nerves, and brain); endocrine system (hormones, glands, growth, and digestion)

Electricity and Magnetism—charges; magnets; static electricity; currents and circuits; electromagnetism

Rocks and Minerals—the earth's interior; crystals; minerals; rock cycle; plate tectonics; volcanoes, earthquakes

The Fossil Record and the History of Life—types of fossils; the Paleozoic, Mesozoic, and Cenozoic eras

Students will also need to acquire clay in 4 colors, 5 cups of fine sand, 3 cups of coarse sand, 3 cups of pea gravel, 2 cups of coarse gravel, and 6 cups of soil.

Prerequisite: None

Grade 4

Credit:

History 4

Concluding their investigation (spanning grades 1–4) into history from the Stone Age to the Space Age, fourth grade students turn to the study of the modern world. They will:

Learn about the Age of Enlightenment and the Scientific Revolution, and meet Isaac Newton and Benjamin Franklin

Become familiar with James Madison and American constitutional government, as well as Napoleon in France

Learn about various revolutions in Latin America

See how great changes—nationalism, industrialism, and imperialism—shaped, and sometimes shattered, the modern world, leading to the two world wars

Study many inventors and innovators who achieved great advances in communication, transportation, medicine, and government

Prerequisite: None

Grade 4

Credit:

Art 4

Following the time line of the K12 History program, fourth grade Art lessons introduce students to the artists, cultures, and great works of art and architecture from French and American Revolutions through modern times. Students will:

Study and create artworks in various media, including portraits, quilts, sculpture, collage, and more

Investigate the arts of the United States, Europe, Japan, Mexico, and Africa

Learn about Impressionism, Cubism, Art Nouveau, Regionalism, and more

Create artworks inspired by works they learn about, using many materials and techniques—after studying sculptures and paintings of ballerinas by Edgar Degas, students create their own clay sculptures of a figure in action, and, inspired by works of Grandma Moses, they create winter landscapes demonstrating the illusion of space

Students will need to acquire tempera paintbrushes in sizes flat bristle 1", small #1, medium #4, and large #8; 12 colors of oil pastels, 4 colors of clay, a tempera paint set, and burlap.

Prerequisite: None

Grade 4

Credit:

Intermediate 2 Music

Intermediate 2 Music is intended for students of third grade age or older who have completed intermediate 1 Music. The course begins by introducing notes that are lower or higher than the familiar lines and spaces of the staff. Students expand their knowledge of rhythm and harmony, and they practice recognizing pentatonic patterns. The course introduces the Romantic period in music, with listening activities to help students recognize Romantic music and identify pieces by individual composers, such as Schubert, Schumann, Brahms, and Tchaikovsky. Students also take a musical trip through Europe, Africa, the Middle East, the Caribbean, Japan, and China. Students will:

Identify notes below do in song material

Perform songs with solfege syllables for low la and low so

Identify rhythms of ti-tiri

Identify rhythms of tiri-ti

Read and write patterns with low la and low so

Read and write patterns with ti-tiri and tiri-ti
Identify characteristics of Romantic composers
Identify Romantic composers and know facts about their lives
Prerequisite: Intermediate 1 Grade 4
Music

Credit:

Fifth Grade Curriculum

Language Arts 5

This course provides structured lessons on reading comprehension, analysis, composition, vocabulary, grammar, usage, and mechanics. Through emphasis on spelling, students learn relationships between sounds and spellings in words and affixes. Lessons are designed to develop comprehension, build vocabulary, and help students become more independent and thoughtful readers. Students practice writing as they write a memoir, an editorial, a research paper, a business letter, and more. Students learn about parts of speech, punctuation, and research skills. Students study literature in a variety of genres including fiction, poetry, nonfiction, drama, and novels.

Language Skills

Composition—Students practice writing, from planning to proofreading, as they write a memoir, an editorial, a research paper, a business letter, and more

Grammar, Usage, and Mechanics—Students learn about parts of speech, punctuation, and research skills. They continue sentence analysis and diagramming

Vocabulary—The Vocabulary Workshop helps students enrich their vocabulary, develop word analysis skills, and prepare for standardized tests

Spelling—Students learn sound-symbol relationships and spelling patterns, identify affixes and how they affect the meaning of words, and recognize base words and roots in related words

Literature

Students analyze, compare, and creatively respond to a variety of works. The emphasis is on classic works, including tales of Robin Hood and St. George; selections from Don Quixote and Shakespeare's *The Tempest* and *A Midsummer Night's Dream*; "Rip Van Winkle" and "The Legend of Sleepy Hollow"; and Sherlock Holmes mysteries. Students read works of nonfiction, as well as four novels (selected from a long list of such classics as *Pippi Longstocking*, *Call It Courage*, and *The Lion, the Witch, and the Wardrobe*).

Students will also need to acquire and read works of literature from a list of books commonly found at your local library. Please contact your student services coordinator for more information.

Prerequisite: None

Grade 5

Credit:

Math+ 5

This research-based course focuses on computational fluency, conceptual understanding, and problem-solving. The engaging course features new graphics, learning tools, and games; adaptive activities that help struggling students master concepts and skills before moving on; and more support for Learning Coaches to guide their students to success. This course for students in Grade 5 investigates whole numbers through practical situations in rounding, exponents and powers, and elementary number theory. Students begin addition and subtraction of integers and apply all of their work with rational numbers to problem-solving experiences. The study of algebra includes work with variables, solving equations and inequalities, using formulas within geometry and measurement, and work within the coordinate system. The study of geometry encompasses properties of lines, angles, two- and three-dimensional figures, and formal constructions and transformations.

Students will need other items easily found in the typical home.

Prerequisite: None

Grade 5

Credit:

Science 5

Students perform experiments, develop scientific reasoning, and recognize science in the world around

them. They build a model of a watershed, test how cell membranes function, track a hurricane, and analyze the effects gravity. Students will explore topics such as:

Water Resources—water pollution; conservation; aquifers; watersheds; wetlands

The World's Oceans—properties of ocean water; currents, waves, and tides; the ocean floor; marine organisms

Earth's Atmosphere—layers; weather patterns, maps, and forecasts; fronts; El Niño; and the greenhouse effect

Forces of Motion—types of pushes or pulls; position and speed; inertia; energy as a measure of work; gravity and motion

Chemistry—structure of atoms; elements and compounds; the Periodic Table; chemical reactions; acids and bases

Cells and Cell Processes—structure; membrane function; respiration and photosynthesis; growth cycles; genes and DNA

Taxonomy of Plants and Animals—levels of classification; plants, animals, monerans, viruses, protists, and fungi

Animal Physiology—circulatory, respiratory, digestive, excretory, and immune systems

Students will also need to acquire clay in 4 colors, 5 cups of fine sand, 3 cups of coarse sand, 3 cups of pea gravel, 2 cups of coarse gravel, and 6 cups of soil.

Prerequisite: None

Grade 5

Credit:

American History A

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

Prerequisite: None

Grade 5

Credit:

Art American A

Following the timeline of the K12 History program, Intermediate Art: American A introduces students to the artists, cultures, and great works of art and architecture of North America, from pre-Columbian times through 1877. Students will:

Study and create various works, both realistic and abstract, including sketches, masks, architectural models, prints, and paintings

Investigate the arts of the American Indians, and Colonial and Federal America

Create artworks inspired by works they learn about, using many materials and techniques—after studying John James Audubon's extraordinary paintings of birds, students make bird paintings with realistic color and texture, and they make weavings inspired by the colors and patterns of Navajo blankets

Students will need to acquire tempera paintbrushes in sizes small #1, medium #4, and large #8; 12 colors of oil pastels, white self-hardening clay, a tempera paint set, and tan burlap.

Prerequisite: None

Grade 5

Credit:

Intermediate 3 Music

Intermediate Music 3 begins by introducing the student to all the notes of the major scale, from low so all the way up to high do. Students also learn to recognize and sing the natural minor scale. Students expand their knowledge of rhythm with simple syncopated patterns. This semester introduces students to the Modern period in music, with listening activities to help them recognize Modern music and identify pieces by individual composers. Near the end of the year explore the folk music of the American continent as they follow the expansion of the country westward. And at the end of the year, they learn to recognize the major forms of classical music, the song form, theme and variations, rondo, sonata, and

fugue forms.

Prerequisite: None

Grade 5

Credit:

Elementary-Level World Languages

K¹² World Language courses help students read, write, speak, and listen for meaning through simple narratives, regular writing and speaking challenges, and games. Students learn common vocabulary terms and phrases, grammar patterns and principles, and the practices and perspectives of various cultures. Courses meet all national standards as set forth by ACTFL (the American Council on the Teaching of Foreign Languages) and follow state guidelines in covering level-appropriate standards.

Elementary French 1

The French Elementary 1 course consists of 180 lesson days formatted in an intuitive calendar view. The content for each week is based on an immersive Diglot Weave™ story which runs throughout the course, with weekly episodes beginning in English and each day weaving in more French. Although the course focuses principally on vocabulary acquisition, basic grammar principles are intuitively grasped through the story, games, activities, and assessments. Approximately every other week, students listen to, and learn a simple French folk song, lullaby, or traditional song. Culture lessons are presented through multi-media CultureGrams™— lessons covering cultural aspects of major French-speaking areas in Europe and across the globe. Students engage in language learning in a rewarding, low-stress environment; get comfortable with the sounds and rhythms of French; comprehend more than 600 vocabulary words; begin to read, write, speak and listen for meaning in French; and recognize distinctive practices and products of various French-speaking countries.

Prerequisite: None

Grade 4

Credit:

Elementary French 2

The French Elementary 2 course consists of 180 lesson days formatted in an intuitive calendar view. The content for each week is based on an immersive Diglot Weave™ story which runs throughout the course, with weekly episodes beginning in English and each day weaving in more French. Although the course focuses principally on vocabulary acquisition, basic grammar principles are intuitively grasped through the story, games, activities, and assessments. Approximately every fourth week, students listen to, and learn a simple French folk song, lullaby, or traditional song. Culture lessons are presented through multi-media CultureGrams™— lessons covering cultural aspects of major French-speaking areas in Europe and across the globe. Students engage in language learning in a rewarding, low-stress environment; get familiar with the sounds and rhythms of French; expand their listening and reading comprehension with more than 600 vocabulary words; expand their ability to read, write, speak and listen for meaning in basic French; and recognize distinctive practices and products of various French-speaking countries.

Prerequisite: Elementary French

Grade 5

Credit:

1

Elementary German 1

The German Elementary course consists of 80 lesson days formatted in an intuitive calendar view. The content for each week is based on an immersive Diglot Weave™ story which runs throughout the course, with weekly episodes beginning in English and each day weaving in more German. Although the course focuses principally on vocabulary acquisition, basic grammar principles are intuitively grasped through the story, games, activities, and assessments. Culture lessons are presented through multi-media CultureGrams™— lessons covering cultural aspects of major German-speaking areas in Europe. Students engage in language learning in a rewarding, low-stress environment; get comfortable with the sounds and rhythms of German; comprehend more than 600 vocabulary words; begin to read, write, speak and listen for meaning in German; recognize distinctive practices and products of various German-speaking countries.

Prerequisite: None

Grade 4

Credit:

Elementary German 2

The German Elementary 2 course consists of 180 lesson days formatted in an intuitive calendar view. The content for each week is based on an immersive Diglot Weave™ story which runs throughout the

course, with weekly episodes beginning in English and each day weaving in more German. Although the course focuses principally on vocabulary acquisition, basic grammar principles are intuitively grasped through the story, games, activities, and assessments. Culture lessons are presented through multimedia CultureGrams™— lessons covering cultural aspects of major German-speaking areas in Europe. Students engage in language learning in a rewarding, low-stress environment; get comfortable with the sounds and rhythms of German; expand their listening and reading comprehension with more than 600 vocabulary words; expand their ability to read, write, speak, and listen for meaning in German; and recognize distinctive practices and products of various German-speaking countries.

Prerequisite: Elementary
German 1

Grade 5

Credit:

Elementary Latin 1

The Latin Elementary 1 course consists of 180 lesson days formatted in an intuitive calendar view. The content for each week is based on a "you-are-there" adventure story which runs throughout the course with regular episodes. Although the course focuses principally on vocabulary acquisition, basic grammar principles are intuitively grasped through the story, games, activities, and assessments. In addition, students learn to perform simple songs and stories each semester. Culture lessons are presented about significant practices or products of the Latin world or its influence on contemporary manifestations. Students engage in language learning in a rewarding, low-stress environment; get comfortable with the sounds and rhythms of Latin; comprehend numerous vocabulary words; begin to read, write, speak and listen for meaning in Latin; give simple performances (e.g. songs, stories, etc.) in Latin; and recognize distinctive practices and products of the Ancient Roman world, and their influence on contemporary practices.

A Latin-English dictionary is recommended.

Prerequisite: None

Grade 5

Credit:

Elementary Spanish 1

The Spanish Elementary 1 course consists of 180 lesson days formatted in an intuitive calendar view. The content for each week is based on an immersive Diglot Weave™ story which runs throughout the course with weekly episodes beginning in English and each day weaving in more Spanish. Although the course focuses principally on vocabulary acquisition, basic grammar principles are intuitively grasped through the story, games, activities, and assessments. In addition, students learn to perform a different simple story each semester. Culture lessons are presented through multimedia CultureGrams™—lessons covering cultural aspects of major Spanish-speaking areas in Europe and the Americas. Students engage in language learning in a rewarding, low-stress environment; get comfortable with the sounds and rhythms of Spanish; comprehend more than 600 vocabulary words; begin to read, write, speak and listen for meaning in Spanish; give simple performances (e.g. songs, stories, etc.) in Spanish; and recognize distinctive practices and products of various Spanish-speaking countries.

Prerequisite: None

Grade 4

Credit:

Elementary Spanish 2

The Spanish Elementary 2 course consists of 180 lesson days formatted in an intuitive calendar view. The content for each week is based on an immersive Diglot Weave™ story which runs throughout the course, with weekly episodes beginning in English and each day weaving in more Spanish. Although the course focuses principally on vocabulary acquisition, basic grammar principles are intuitively grasped through the story, games, activities, and assessments. In addition, students learn to perform a different simple story each semester. Culture lessons are presented through multimedia CultureGrams™—lessons covering cultural aspects of major Spanish-speaking areas in Europe and the Americas. Students engage in language learning in a rewarding, low-stress environment; get familiar with the sounds and rhythms of Spanish; expand their listening and reading comprehension with more than 600 vocabulary words; expand their ability to read, write, speak and listen for meaning in basic Spanish; give simple performances (e.g. songs, stories, etc.) in Spanish; and recognize distinctive practices and products of various Spanish-speaking countries.

Prerequisite: Elementary
Spanish I

Grade 5

Credit:

Accelerate Education Elementary Program

JEDI partners with Accelerate Education to provide an alternate K-5 option for elementary education. For any elementary AE course at any grade level the following required materials will be needed: colored pencils, 12 pencils, 4 composition notebooks, a ruler, glue, scissors, yellow highlighter, scotch tape, black permanent marker, watercolor paints, and paint brushes.

Kindergarten Curriculum

Language Arts K [A, B]

This Kindergarten Language Arts course will teach students to identify and write all letters, produce letter sounds and also frequently used phonograms. Students will also master weekly sight words and reading and comprehension strategies to grow as readers. All Common Core K LA standards are met in this course.

Prerequisite: None Grade Kindergarten Credit:

Math K [A, B]

Course description unavailable at this time.

Prerequisite: None Grade Kindergarten Credit:

Science K [A, B]

In Kindergarten Science, students in this course will use their senses to explore their world. Students experience nature walks, gardening, and imitative games.

Prerequisite: None Grade Kindergarten Credit:

Social Studies K [A, B]

Course description unavailable at this time.

Prerequisite: None Grade Kindergarten Credit:

Arts & Crafts K [A, B]

Course description unavailable at this time.

Prerequisite: None Grade Kindergarten Credit:

First Grade Curriculum

Language Arts 1 [A, B]

This First Grade Language Arts course will teach students to identify and write all letters, produce letter sounds and also frequently used phonograms. Students will also master weekly sight words and reading and comprehension strategies to grow as readers. All Common Core 1 LA standards are met in this course.

Prerequisite: None Grade 1 Credit:

Math 1 [A, B]

Course description unavailable at this time.

Prerequisite: None Grade 1 Credit:

Science 1 [A, B]

In First Grade Science, students in this course 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.

Prerequisite: None Grade 1 Credit:

Social Studies 1 [A, B]

Course description unavailable at this time.

Prerequisite: None Grade 1 Credit:

Arts & Crafts 1 [A, B]

Course description unavailable at this time.

Prerequisite: None Grade 1 Credit:

Second Grade Curriculum

Language Arts 2 [A, B]

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 also continue to master weekly sight words and reading and comprehension strategies to grow as readers. All Common Core 2 LA standards are met in this course.

Prerequisite: None

Grade 2

Credit:

Math 2 [A, B]

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. During the second semester students will use place value to add and subtract within 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. Lastly, they will recognize common 2 dimensional and 3 dimensional shapes by specific characteristics.

Prerequisite: None

Grade 2

Credit:

Science 2 [A, B]

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 everyday lives.

Prerequisite: None

Grade 2

Credit:

Social Studies 2 [A, B]

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.

Prerequisite: None

Grade 2

Credit:

Arts & Crafts 2 [A, B]

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. Art offers the student an opportunity to express feelings and emotions in their drawings and with color. Arts and

Crafts promote self-esteem and self-awareness as it enhances personal fulfillment. 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 and create a Memorial Clay.

Prerequisite: None Grade 2 Credit:

Third Grade Curriculum

Language Arts 3 [A, B]

This Third Grade Language Arts course will teach students to 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 become stronger writers. All Common Core Third Grade LA standards are met in this course.

Prerequisite: None

Grade 3

Credit:

Math 3 [A, B]

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. Lastly, 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. 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.

Prerequisite: None

Grade 3

Credit:

Science 3 [A, B]

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 it's 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 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.

Prerequisite: None

Grade 3

Credit:

Social Studies 3 [A, B]

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. 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.

Prerequisite: None

Grade 3

Credit:

Fourth Grade Curriculum

Language Arts 4 [A, B]

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. 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. 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.

Prerequisite: None

Grade 4

Credit:

Math 4 [A, B]

Grade 4 math uses a varied amount of instructional material to reinforce and teach new math skills to the 4th grade 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 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.

Prerequisite: None

Grade 4

Credit:

Science 4 [A, B]

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 that 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 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 as they complete projects that require them to dig through dirt and trash in order to learn broader lessons that have to do with helping the environment.

Prerequisite: None

Grade 4

Credit:

Social Studies 4 [A, B]

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 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 Unites 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.

Prerequisite: None

Grade 4

Credit:

Fifth Grade Curriculum

Language Arts 5 [A, B]

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. 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.

Prerequisite: None

Grade 5

Credit:

Math 5 [A, B]

Students will learn math topics outlined in this course drawing from a variety of sources, including hands-on activities, interactive lessons, and practical math applications. Students will focus on several critical areas including but not limited to developing fluency with addition, subtraction, multiplication, and division of fractions. They will also learn to extend division to 2-digit divisors, integrate decimal fractions into the place value system, and increase an understanding of operations with decimals to hundredths. They will develop a fluency with whole numbers and decimal operations. The semester begins with operations and expressions, moves into decimals and money, and ends with more work on fractions. Learners will gain valuable skills as they carry out activities that model real life situations like grocery shopping throughout the semester. 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. The third critical area that students will focus on in Grade 5 Math is volume. Students will receive lessons in measurement of length, weight, and volume. They 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.

Prerequisite: None

Grade 5

Credit:

Science 5 [A, B]

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 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.

Prerequisite: None

Grade 5

Credit:

Social Studies 5 [A, B]

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 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 50 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.

Prerequisite: None

Grade 5

Credit:

Additional Elementary Courses

Art Development Level 1*

The importance of fine arts is a benefit, not just to the older student and population, but is a necessary area of development for the young student who will benefit with it in all areas of education. 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. It is important for the student to make a connection between the verbal and visual; logic and emotions; imagination and reality. Art offers the student an opportunity to express feelings and emotions in their drawings and with color. The fine art program promotes self-esteem and self-awareness as it enhances personal fulfillment. Children have a wonderful imagination that, if encouraged, will be needed throughout their life. This program 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. Again, this is a necessity in lifetime experiences. The student will see the artistic expressions and inventions from cultures around the world that are part of the history of mankind and development. Modern media provides many opportunities to the student. However, the student has the benefit to experience it more closely in art classes. Repetition, important for young children, is evident in these lessons. Repetition is provided at different age levels while using various tools and mediums. Home, family and friends, pets, and toys are the young student's world. The student will begin with their personal world as they think they know it, and discover so much more about it. These lessons provide a deeper awareness of the world immediately around them, and eventually their journey will grow from there. Each student is an individual with unique ideas and talents. Our goal is to provide each student an opportunity for personal growth for themselves and the world in which we live.

Prerequisite: None Grade Elementary Credit:

Art Development Level 2*

The importance of fine arts is a benefit, not just to the older student and population, but is a necessary area of development for the young student who will benefit with it in all areas of education. 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. It is important for the student to make a connection between the verbal and visual; logic and emotions; imagination and reality. Art offers the student an opportunity to express feelings and emotions in their drawings and with color. The fine art program promotes self-esteem and self-awareness as it enhances personal fulfillment. Children have a wonderful imagination that, if encouraged, will be needed throughout their life. This program 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. Again, this is a necessity in lifetime experiences. The student will see the artistic expressions and inventions from cultures around the world that are part of the history of mankind and development. Modern media provides many opportunities to the student. However, the student has the benefit to experience it more closely in art classes. Repetition, important for young children, is evident in these lessons. Repetition is provided at different age levels while using various tools and mediums. Home, family and friends, pets, and toys are the young student's world. The student will begin with their personal world as they think they know it, and discover so much more about it. These lessons provide a deeper awareness of the world immediately around them, and eventually their journey will grow from there. Each student is an individual with unique ideas and talents. Our goal is to provide each student an opportunity for personal growth for themselves and the world in which we live.

Prerequisite: None Grade Elementary Credit:

Art Development Level 3*

The Art program provides an opportunity for children to develop the use of their senses directly and encourages the student to further develop their personal source of knowledge and creativity. Art offers the student 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 their drawings and with color while promoting self-esteem and self-awareness in personal fulfillment. The imagination in children is encouraged in art. However, it will assist them in their other studies as well. This program 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. The student is introduced to some of the artistic expressions and techniques from cultures around the world. Modern technology provides opportunities for the student to observe this history. The art student will use some of these elements themselves in their own artwork. Repetition, important for children, is provided at different age levels while using various tools and mediums. Home, family, traditions, friends, pets, and toys are the young student's world. The student will explore what they know of their world. These lessons provide a deeper awareness of the world immediately around them where their journey is just beginning. As an individual each student is gifted with unique talents and ideas. Our goal is to provide each student an opportunity for personal growth for themselves and the world in which they live.

Prerequisite: None

Grade Elementary

Credit:

Art Development Level 4*

The Art program provides an opportunity for children to develop the use of their senses directly and encourages the student to further develop their personal source of knowledge and creativity. Art offers the student 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 their drawings and with color while promoting self-esteem and self-awareness in personal fulfillment. The imagination in children is encouraged in art. However, it will assist them in their other studies as well. This program 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. The student is introduced to some of the artistic expressions and techniques from cultures around the world. Modern technology provides opportunities for the student to observe this history. The art student will use some of these elements themselves in their own artwork. Repetition, important for children, is provided at different age levels while using various tools and mediums. Home, family, traditions, friends, pets, and toys are the young student's world. The student will explore what they know of their world. These lessons provide a deeper awareness of the world immediately around them where their journey is just beginning. As an individual each student is gifted with unique talents and ideas. Our goal is to provide each student an opportunity for personal growth for themselves and the world in which they live.

Prerequisite: None

Grade Elementary

Credit:

Chinese 1 [A, B]

This introductory Chinese course provides a fun, interactive experience for a student's first exposure to the Chinese language. The content for each unit is based on an authentic story, myth or legend from Chinese culture. Although the course focuses principally on vocabulary acquisition, basic grammar principles are intuitively grasped through the story, games, activities, 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 Chinese; learn simple Chinese characters; begin to read, write, speak and listen for meaning in Chinese; and recognize distinctive practices and products of the Chinese culture.

Prerequisite: None

Grade 2-5

Credit:

Elementary Health [1, 2]

Elementary Health helps young learners establish a basic understanding of the various aspects of health, including physical, mental/emotional, and social health. Students focus on establishing good habits and making healthy choices. Topics of study include personal safety, emotional health, healthy behaviors, nutrition, communication, disease prevention, basic anatomy and physiology, and values of cooperation and teamwork.

Prerequisite: None

Grade K-5

Credit:

Elementary Music-Recorders Level 1*

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

Prerequisite: None

Grade K-3

Credit:

Elementary PE [1, 2]

Elementary PE helps young learners establish a basic understanding of health and fitness. Students focus on health and skill related fitness. Topics of study include exercise safety, making healthy choices, nutrition, benefits of exercise, components and principles of fitness, basic anatomy and physiology, and values of teamwork and good sportsmanship. In addition, students learn age-appropriate motor and manipulative skills. Students are required to participate in regular physical activity.

Prerequisite: None

Grade K-5

Credit:

Spanish 1 [A, B]

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.

Prerequisite: None

Grade 2-5

Credit: