



Capital Area Online Learning Association

Online Course Catalog K-5 Elementary 2018-2019



Odysseyware®

CORE COURSES & ELECTIVES

Accelerate Education

KINDERGARTEN

Elem. Language Arts K A/ K B
Elem. Science K A/ K B
Elem. Arts & Crafts K A/ K B
Elem. Social Studies K A/ K B
Elem. Math K A/ K B
Elem. Health K A/ K B
Elem. Physical Education K A/ K B

FIRST GRADE

Elem. Language Arts 1 A/ 1 B
Elem. Science 1 A/ 1 B
Elem. Arts & Crafts 1 A/ 1 B
Elem. Social Studies 1 A/ 1 B
Elem. Math 1 A/ 1 B
Elem. Health 1 A/ 1 B
Elem. Physical Education 1 A/ 1 B

SECOND GRADE

Elem. Language Arts 2 A/ 2 B
Elem. Science 2 A/ 2 B
Elem. Arts & Crafts 2 A/ 2 B
Elem. Social Studies 2 A/ 2 B
Elem. Math 2 A/ 2 B
Elem. Health 2 A/ 2 B
Elem. Physical Education 2 A/ 2 B

THIRD GRADE

Elem. Language Arts 3 A/ 3 B
Elem. Science 3 A/ 3 B
Elem. Social Studies 3 A/ 3 B
Elem. Math 3 A/ 3 B
Elem. Health 3 A/ 3 B
Elem. Physical Education 3 A/ 3 B

FOURTH GRADE

Elem. Language Arts 4 A/ 4 B
Elem. Science 4 A/ 4 B
Elem. Social Studies 4 A/ 4 B
Elem. Math 4 A/ 4 B
Elem. Health 4 A/ 4 B
Elem. Physical Education 4 A/ 4 B

FIFTH GRADE

Elem. Language Arts 5 A/ 5 B
Elem. Science 5 A/ 5 B
Elem. Social Studies 5 A/ 5 B
Elem. Math 5 A/ 5 B
Elem. Health 5 A/ 5 B
Elem. Physical Education 5 A/ 5 B

WORLD LANGUAGES

Elem. Chinese 1 A/ 1 B

Elem. Spanish 1 A/ 1 B

MUSIC

Elem. Recorders Level 1

ART

Elem. Art Development Level 1

Elem. Art Development Level 2

Elem. Art Development Level 3

Elem. Art Development Level 4

TECHNOLOGY

Keyboarding (Grades 3-8)

Scratch Coding (Grades 3-8)

CORE COURSES & ELECTIVES

Odysseyware

THIRD GRADE

Language Arts 300

Spelling 300

History and Geography 300

Mathematics 300

Science 300

FOURTH GRADE

Language Arts 400

Spelling 400

History and Geography 400

Mathematics 400

Science 400

FIFTH GRADE

Language Arts 500

Spelling 500

History and Geography 500

Mathematics 500

Science 500



Grades K-3

Required

Crayons
Composition Notebook (6)
Watercolor Paints &
Brushes & Paper
Construction Paper Pack
Scissors (blunt)
(1-3) 2 Recorders
Printer w/Scanner & Paper

Grades 4-5

Required

Word Processing &
Presentation Software

Suggested

Notebook, Pen, Pencil, &
Highlighter
Digital Camera
(4-8) Printer w/Scanner &
Paper

General by Subject

English – Courses include common novels / books that can be purchased or checked out from a local library

Science – Courses include “home-labs” for exploration that require various household items

Fine Arts – Courses require access to a digital camera or scanner

Math – Courses require a scientific calculator, online or handheld

Physical Education – Courses suggest a heart monitor and resistance bands. (Alternative methods are available)



Course Features

- **Pleasant, Age-Appropriate Multimedia** – Cheerful instructional videos short in length to ensure focus, graphics that grab, learning games that help in transfer in learning, slideshows that encourage fluency practice and frequent interactivity create an atmosphere of doing rather than passive reading.
- **Consistent, Spiral, Curriculum** – Language Arts and Math curriculum frequently returns to prior knowledge so students can continue building on what they have already learned. Moreover, the ELA curriculum focuses and builds on the same learning day after day and lesson after lesson. This includes: phonics, sight words, spelling, journaling, writing, grammar, readings, and fluency.
- **Formative Support** – Accelerate believes in building student confidence. One important way to do this is to provide immediate feedback both in direct instruction and after quizzes. All computer-scored assessment has formative feedback based on student answers.
- **Workbooks** – Offline work is crucial for the success of younger learners. Virtual students can either download pages or use pages from a hard-copy workbook to complete assignments and for practicing. For K-2 students particularly, there is a need for handwriting practice, practice with numbers and practicing writing.
- **Learning Coach** – These notes are designed for a parent or learning coach at home and give best practice suggestions to guide at-home students.
- **Practice** – In addition to practice pages in the workbooks, there are many opportunities to practice solving, writing, and improving reading comprehension online.
- **Audio** – All pages have audio recorded by a human reader. This allows for modeling of words for students who need to hear pronunciations clearly. This feature can also help below basic readers as well as ESL students.
- **Assessment** – Each lesson contains at least one written assessment. Lessons are followed by quizzes. Each unit is followed by a comprehensive exam.

Course Types

- **Original Credit** – Standards aligned courses that take between 50-70 hours to complete per semester. Courses contain content, assessment, and teacher guides.

Kindergarten

Elem. Language Arts K A/K 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 Language Arts standards are met in this course.

Semester A; Major Concepts:

- Letter Aa; Short a
- Letter Bb
- Letter Tt
- Letter Mm
- Letter Ss
- Letter Nn
- Letter Ee; Short e
- Letter Ff
- Letter Dd
- Letter Gg; Soft and Hard Gg
- Letter Ii, Short i
- Letter Cc; Soft and Hard Cc
- Letter Pp
- Letter Rr
- Letter Oo; Soft o
- Letter Vv

Semester B; Major Concepts:

- Letter Ww
- Letter Zz
- Letter Uu; Short u
- Letter Jj
- Letter Kk
- Letter Qq: Qu sound
- Letter Yy
- Letter Xx
- Phonics: th
- Phonics: sh
- Phonics: ch
- Phonics: wh
- Phonics: Long a, e, i, o, u

Prerequisite: None

Length: Two Semesters

Required Materials: (Please see link below for a detailed list)

- Basic School Supplies
- Basic Art and Crafting Supplies

<https://accelerate.education/wp-content/uploads/2017/04/MaterialsElementarySupplies.pdf>

<https://accelerate.education/wp-content/uploads/2017/04/MaterialsGradeK.pdf>

Elem. Science K A/K B

Semester A

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

Semester A; Major Concepts:

- The Fall Season
- Leaves and Butterflies
- Deer
- Autumn Leaves and Weather Conditions
- Falling leaves
- Squirrels
- Ducks
- Natural Fall Objects
- Nature Observations
- Animals & Camouflage
- Planting a Garden
- Terrariums
- Growing a Seed
- Goldfish
- Freezing Water
- Magnets

Semester B

Students in this course will continue using their senses to explore their world. Students experience nature walks, gardening, and imitative games by exploring the topics shown below.

Semester B; Major Concepts:

- Animal Tracks
- Astronomy in the Winter
- Animals and their Offspring
- Shapes in Nature
- Winter and the Five Senses
- Properties of Matter
- Spring Clouds
- Rainbows and Evaporation
- Making Maple Syrup
- Spring Flowers
- Earthworms
- Evening Stars & Constellations
- Birds
- Pet Care
- Bees and Pollution
- The Sounds of Spring
- Frogs and Ponds

Prerequisite: None

Length: Two Semesters

Required Materials: (Please see link below for a detailed list)

- Basic School Supplies

<https://accelerate.education/wp-content/uploads/2017/04/MaterialsElementarySupplies.pdf>

<https://accelerate.education/wp-content/uploads/2017/04/MaterialsGradeK.pdf>

Elem. Arts & Crafts K A/ K B

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 on this course is on creating works of art. In this semester students will work with clay, draw with pastels, make fingerprint flowers, draw barns and animals using shapes and recognizing lines using the student's name.

Semester A; Major Concepts:

- Lines
- Drawing circles
- Identifying shapes
- Primary colors

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. Among the projects this semester students will be creating a bird feeder, make pig puppets, craft paper flowers, make potpourri, craft a heart collage, construct a wind chime, and press flowers.

Semester B; Major Concepts:

- Collage
- Crafts
- Weaving
- Bubble painting

Prerequisite: None

Length: Two Semesters

Required Materials: (Please see link below for a detailed list)

- Crayons
- Yellow, blue, red, and black markers
- Multimedia paper
- Watercolor paper
- Pastels
- 11x14 or large 90lb watercolor paper
- Tempera paint in primary colors of red, yellow and blue
- Brush - 3/4" round
- Watercolor brush
- Craft stick
- Pine cone, bird seed
- Peanut butter, rice, beans
- Household items such as glue, scissors, tape, ruler, paper towels, cardboard, masking tape, straws
- Basic School Supplies
- Basic Art and Crafting Supplies

<https://accelerate.education/wp-content/uploads/2017/04/MaterialsElementarySupplies.pdf>

<https://accelerate.education/wp-content/uploads/2017/04/MaterialsGradeK.pdf>

Elem. Social Studies K A/ K B

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. 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. Projects will help students think about what pets need and defining emotions.

Semester A; Major Concepts:

- Problem solving
- Calendar
- Food log
- Perfect pets
- Everyday heroes
- Rules at home
- Table manners

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 holidays with a particular focus on Thanksgiving. Another focus is on currency. They will be introduced to what money is, how money can be spent, the power of buying locally, and the difference between wants and needs. Projects will include a piece on distinguishing facts from fiction, buying locally, and focusing on the differences between needs and wants.

Semester B; Major Concepts:

- Maps
- School symbols
- Family traditions
- Holidays and traditions
- Currency
- Buying power
- Advertising
- Fact or fiction

Prerequisite: None

Length: Two Semesters

Required Materials: (Please see link below for a detailed list)

- Ruler
- Colored pencils or crayons
- Yarn
- Hole punch
- Construction Paper
- Glue
- Shoebox or other box
- Play dough or clay
- Books: The Relatives Came (Cynthia Rylant), Unlovable (Dan Yaccarino), Crazy Hair Day (Barney Saltzberg), The Zax (Dr. Seuss)

<https://accelerate.education/wp-content/uploads/2017/04/MaterialsElementarySupplies.pdf>

<https://accelerate.education/wp-content/uploads/2017/04/MaterialsGradeK.pdf>

Elem. Math K A/K B

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 A; Major Concepts:

- Position words
- Comparing sizes
- Shapes
- Counting to ten
- Patterns
- Basic measures
- Number line
- Telling time
- Ordinals – first through seventh

Semester B

Students 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. They will also make the numbers 1-10 out of dough.

Semester B; Major Concepts:

- Counting to twenty
- Comparing weight and length
- Sorting by shape and color
- Cones, cubes, and spheres
- First middle and last
- Left and right
- Counting pennies and nickels

Prerequisite: None

Length: Two Semesters

Required Materials: (Please see link below for a detailed list)

- 78 beans or counters
- Empty egg carton
- Chalk
- 45 mini marshmallows
- Hole punch
- Scissors, Yarn, Tape
- Buttons, beads, Pipe cleaner
- Finger paints
- Basic School Supplies

<https://accelerate.education/wp-content/uploads/2017/04/MaterialsElementarySupplies.pdf>

<https://accelerate.education/wp-content/uploads/2017/04/MaterialsGradeK.pdf>

Elem. Health K A/ K B

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 personal safety, healthy behaviors, nutrition, communication, disease prevention, basic anatomy and physiology, and values of cooperation and teamwork.

Semester A; Major Concepts:

- What is Health
- Health Behaviors
- Nutrition
- Safety

Semester B; Major Concepts:

- Communication
- Health Helpers
- Disease
- Anatomy

Prerequisite: None

Length: Two Semesters

Materials: (Please see link below for a detailed list)

- Basic School Supplies

<https://accelerate.education/wp-content/uploads/2017/04/MaterialsElementarySupplies.pdf>

<https://accelerate.education/wp-content/uploads/2017/04/MaterialsGradeK.pdf>

Elem. Physical Education K A/ K B

Elementary PE K-1 helps young learners establish a basic understanding of health and fitness. Students focus on health-related fitness and learn how to become more fit and healthy. Topics of study include exercise safety, making healthy choices, nutrition, the benefits, components, and principles of fitness, basic anatomy and physiology, and values of cooperation and teamwork. In addition, students learn age-appropriate motor, non-locomotor, and manipulative skills. Students are required to participate in regular physical activity.

Semester A; Major Concepts:

- Your Fitness
- Safety
- Healthy Choices
- Components of Fitness

Semester B; Major Concepts:

- Principles of Fitness
- Game Play
- Nutrition
- Your Body

Prerequisite: None

Length: Two Semesters

Materials:

- Heart Rate Monitor
- SPRI Resistance Tubing Kit

1st Grade

Elem. Language Arts 1 A/1 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.

Semester A; Major Concepts:

- Short a
- Short e
- r Blends
- Short i
- Short o
- s Blends
- l Blends
- Short u
- Phonics: sh, th
- Phonics: ch, wh, ph
- Long i; i_e
- Long a; a_e
- Soft c, soft g, dge
- Phonics: ou and ow
- Phonics: oo and u
- Long o; o_e
- Long e: e_e and Long u: u_e
- Phonics: oi and oy

Semester B; Major Concepts:

- Ai and ay
- Ee, ea
- Nk and ng
- Ey and y
- Oa, oe, ow
- Igh, ie, y
- Ar
- Ur, er, ir
- Ck, k
- Ing and ed
- Double Consonants
- S and es
- Au and aw
- Kn, gn, wr
- Er, est
- Compound Words
- Contractions

Prerequisite: None

Length: Two Semesters

Materials: (Please see link below for a detailed list)

- Basic School Supplies

<https://accelerate.education/wp-content/uploads/2017/04/MaterialsElementarySupplies.pdf>

<https://accelerate.education/wp-content/uploads/2017/04/MaterialsGrade1.pdf>

Elem. Science 1 A/1 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.

Semester A; Major Concepts:

- The Moon
- The Seasons
- Classifying Leaves
- Seeds
- Animal Tracks
- Birds
- Animals and their basic needs
- Weather charts
- Cloud formation
- Weather change and the effects on animals
- Living with nature
- Animal Adaptation
- Winter and Snow formation
- Comparing Tree Types
- Wild Animal Responses
- Hibernation
- Erosion
- Constellations

Semester B; Major Concepts:

- Animals in the arctic
- Nocturnal and Diurnal animals
- States of matter
- Dolphins and Sea life
- Planting a tomato
- Scientific inquiry
- Reading a thermometer
- Life in a pond
- Life in a forest
- Characteristics of the maple leaf
- How the marketplace works
- Sounds in Nature
- Birdhouses
- Deciduous Trees
- Sunflowers
- Bees and Pollination
- Comparing Butterflies
- Planting a Garden

Prerequisite: None

Length: Two Semesters

Materials: (Please see link below for a detailed list)

- Basic School Supplies

<https://accelerate.education/wp-content/uploads/2017/04/MaterialsElementarySupplies.pdf>

<https://accelerate.education/wp-content/uploads/2017/04/MaterialsGrade1.pdf>

Elem. Arts & Crafts 1 A/1 B

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 watercolor tree, use a printing block, produce weather painting, and produce a watercolor painting.

Semester A; Major Concepts:

- Primary Colors
- Color Wheel
- Symmetry
- Lines and Shapes
- Nature and Art

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. 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.

Semester B; Major Concepts:

- Form drawing
- Mixing colors
- Calendar
- Stenciling
- Wet crayons and wet paper

Prerequisite: None

Length: Two Semesters

Required Materials: (Please see link below for a detailed list)

- Poster paper
- Watercolor paper
- Pastel/charcoal paper
- Tempera paint in primary colors of red, yellow and blue
- Brush– 3/4” round
- Watercolor brush
- Pastels
- Crayons
- Yellow, blue, red, and black markers
- Household items such as scissors, glue, tape, ruler, cardboard
- Basic School Supplies
- Basic Art and Crafting Supplies

<https://accelerate.education/wp-content/uploads/2017/04/MaterialsElementarySupplies.pdf>

<https://accelerate.education/wp-content/uploads/2017/04/MaterialsGrade1.pdf>

Elem. Social Studies 1 A/ 1 B

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 such as Pocahontas, George Washington, Abraham Lincoln, and Clara Barton. 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 A; Major Concepts:

- Reading and understanding a calendar
- Cardinal directions
- Personal timeline
- Geography skills
- Reading a map
- Retelling stories and the five finger retell

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 (a sailor with Columbus) 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.

Semester B; Major Concepts:

- Bartering
- Native American systems
- Goods in the home and the marketplace
- Community services
- Personal responsibility
- Characteristics of truthfulness
- Role of work in a communities

Prerequisite: None

Length: Two Semesters

Required Materials: (Please see link below for a detailed list)

- Ruler
- Colored pencils or crayons
- Yarn
- Hole puncher
- 12 large pieces of paper, legal size is best
- Poster board
- Crayons
- Basic School Supplies

<https://accelerate.education/wp-content/uploads/2017/04/MaterialsElementarySupplies.pdf>

<https://accelerate.education/wp-content/uploads/2017/04/MaterialsGrade1.pdf>

Elem. Math 1 A/ 1 B

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 A; Major Concepts:

- Counting to 100
- Counting strategies
- Addition of three numbers; double digit addition
- Understanding even and odd numbers
- Recognizing geometry in daily life
- Introduction to word problems
- Introduction to Venn diagrams
- Elementary probability

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.

Semester B; Major Concepts:

- Counting by twos, fives, and tens
- Ordinal numbers
- Identifying 2-dimensional shapes
- Introduction to multiplication
- Introduction to division
- Signs used in operations
- Drawing shapes

Prerequisite: None

Length: Two Semesters

Required Materials: (Please see link below for a detailed list)

- 100 blocks or stackable objects
- 100 counters
- 30 counters
- Ruler
- Uncooked rice
- Various size containers and bowls
- Masking tape
- Coins
- Jump rope (optional)
- Rhythm instruments (optional)
- String (optional)
- Basic School Supplies

<https://accelerate.education/wp-content/uploads/2017/04/MaterialsElementarySupplies.pdf>

<https://accelerate.education/wp-content/uploads/2017/04/MaterialsGrade1.pdf>

Elem. Health 1 A/ 1 B

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 personal safety, healthy behaviors, nutrition, communication, disease prevention, basic anatomy and physiology, and values of cooperation and teamwork.

Semester A; Major Concepts:

- What is Health
- Health Behaviors
- Nutrition
- Safety

Semester B; Major Concepts:

- Communication
- Health Helpers
- Disease
- Anatomy

Prerequisite: None

Length: Two Semesters

Materials: (Please see link below for a detailed list)

- Basic School Supplies

<https://accelerate.education/wp-content/uploads/2017/04/MaterialsElementarySupplies.pdf>

<https://accelerate.education/wp-content/uploads/2017/04/MaterialsGrade1.pdf>

Elem. Physical Education 1 A/ 1 B

Elementary PE K-1 helps young learners establish a basic understanding of health and fitness. Students focus on health-related fitness and learn how to become more fit and healthy. Topics of study include exercise safety, making healthy choices, nutrition, the benefits, components, and principles of fitness, basic anatomy and physiology, and values of cooperation and teamwork. In addition, students learn age-appropriate motor, non-locomotor, and manipulative skills. Students are required to participate in regular physical activity

Semester A; Major Concepts:

- Your Fitness
- Safety
- Healthy Choices
- Components of Fitness

Semester B; Major Concepts:

- Principles of Fitness
- Game Play
- Nutrition
- Your Body

Prerequisite: None

Length: Two Semesters

Materials:

- Heart Rate Monitor
- SPRI Resistance Tubing Kit

2nd Grade

Elem. Language Arts 2 A/ 2 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.

Semester A; Weekly Themes include:

- Your Family
- Family Fun
- Bedtime
- Fall Fun
- Farm Visit
- Dentist Visit
- Grandparents
- Making Snow
- Winter Time
- Cooking Fun
- Cycles
- Getting Creative
- Fun with Friends
- Animal Friends
- Animal Helpers
- Animal Babies
- Doctors & Nurses
- Authors

Semester B; Weekly Themes include:

- Animal Food
- Animal Jobs
- Travel Stories
- My Community
- Community Jobs
- Gifts
- Making Mischief
- Natural World
- Animal Adventure
- Patterns
- Earth
- Water
- To the Moon
- Future
- Making Plans
- Asking Questions
- Being Afraid
- Moving On

Prerequisite: None

Length: Two Semesters

Materials: (Please see link below for a detailed list)

<https://accelerate.education/wp-content/uploads/2017/04/MaterialsElementarySupplies.pdf>

<https://accelerate.education/wp-content/uploads/2017/04/MaterialsGrade2.pdf>

Elem. Science 2 A/ 2 B

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 everyday lives.

Semester A; Major Concepts:

- The Five Senses of Humans
- Animal Habitats and Weather
- Plant and Animal Rhythms
- Animal Characteristics
- Nature and Interactions
- Experiments with Plants
- Animal Needs

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.

Semester B; Major Concepts:

- Examining the Characteristics of Animal Groups
- Vertebrates and Invertebrates
- Warm and Cold Blooded Animals
- Animal Food Chains
- Animal Communication
- The Desert Biome
- Carnivores, Herbivores, and Omnivores

Prerequisite: None

Length: Two Semesters

Materials: (Please see link below for a detailed list)

- Basic Kitchen Lab Supplies

<https://accelerate.education/wp-content/uploads/2017/04/MaterialsElementarySupplies.pdf>

<https://accelerate.education/wp-content/uploads/2017/04/MaterialsGrade2.pdf>

Elem. Arts & Crafts 2 A/ 2 B

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. 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 throughout 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 complementary 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.

Semester A; Major Concepts:

- Primary, Secondary, and Complementary Colors
- Value Charts
- Symmetry
- Clay
- Nature and Art

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. 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.

Semester B; Major Concepts:

- Months and Days
- Form Drawing
- Wet Crayons and Wet Paper
- Seasons
- Clay
- Nature and Art

Prerequisite: None

Length: Two Semesters

Materials: (Please see link below for a detailed list)

- Basic Art and Crafting Supplies

<https://accelerate.education/wp-content/uploads/2017/04/MaterialsElementarySupplies.pdf>

<https://accelerate.education/wp-content/uploads/2017/04/MaterialsGrade2.pdf>

Elem. Social Studies 2 A/ 2 B

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 A; Major Concepts:

- Cultural Diversity in Ancient Civilizations
- Reading Fables and Folktales
- Put Together a Linear Story
- Geography Skills
- Reading a Map
- Identifying Important Land Features

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. Students will learn about Rosa Parks and Susan B. Anthony through short stories. The end of the course asks learners to examine the diversity of the community they live in. They will be asked to recognize the different types of people around them. Students should gain an appreciation for the differences around them and how having respect for others and being honest will contribute to society as a whole. 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; Major Concepts:

- Understanding Important Economic Fundamentals
- Understanding of Human and Capital Resources
- The Exchange of Money and Coins
- Scarcity and Limited Resources
- Admirable Qualities
- Admirable Individuals in History and the Community

Prerequisite: None

Length: Two Semesters

Materials: (Please see link below for a detailed list)

- Basic School Supplies

<https://accelerate.education/wp-content/uploads/2017/04/MaterialsElementarySupplies.pdf>

<https://accelerate.education/wp-content/uploads/2017/04/MaterialsGrade2.pdf>

Elem. Math 2 A/ 2 B

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 A; Major Concepts:

- Fact Fluency
- Addition and Subtraction to 1000
- Addition and Subtraction Strategies
- Repeated Addition
- Associative and Commutative Properties
- Estimation

Semester B

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.

Semester B; Major Concepts:

- Repeated Subtraction
- Whole Number Length
- Time: Minute, Hour, Day
- Money: Combinations of 1 dollar
- Area and Perimeter
- Simple Fractions: Equivalency
- Data
- Volume and Weight
- 2D and 3D Shapes

Prerequisite: None

Length: Two Semesters

Materials: (Please see link below for a detailed list)

<https://accelerate.education/wp-content/uploads/2017/04/MaterialsElementarySupplies.pdf>

<https://accelerate.education/wp-content/uploads/2017/04/MaterialsGrade2.pdf>

Elem. Health 2 A/ 2 B

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 personal safety, healthy behaviors, nutrition, disease prevention, conflict resolution, basic anatomy and physiology, and the values of respect and cooperation.

Semester A; Major Concepts:

- Health Communication
- Social Health
- Mental Health
- Injury Prevention

Semester B; Major Concepts:

- Nutrition and Fitness
- The Body
- Disease and Drugs
- Consumer and Environmental Health

Prerequisite: None

Length: Two Semesters

Materials: (Please see link below for a detailed list)

- Basic School Supplies

<https://accelerate.education/wp-content/uploads/2017/04/MaterialsElementarySupplies.pdf>

<https://accelerate.education/wp-content/uploads/2017/04/MaterialsGrade2.pdf>

Elem. Physical Education 2 A/ 2 B

Elementary PE 2-3 helps young learners establish a basic understanding of health and fitness. Students focus on health-related fitness and learn how to become more fit and healthy. Topics of study include warm-up and cool down, water safety, goal setting, nutrition, muscle strength and flexibility. In addition, students learn age-appropriate motor, non-locomotor, and manipulative skills. Students are required to participate in regular physical activity.

Semester A; Major Concepts:

- Your Fitness
- Safety
- Healthy Choices
- Skill and Health

Semester B; Major Concepts:

- Principles of Fitness
- Game Play
- Nutrition
- Your Body

Prerequisite: None

Length: Two Semesters

Materials: (Please see link below for a detailed list)

- Basic School Supplies

3rd Grade

Elem. Language Arts 3 A/ 3 B

Semester A

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.

Semester A; Weekly Themes include:

- My Adventures
- Space Adventures
- Ocean Adventures
- Fables
- Myths
- Why Tales
- Solving Problems
- Asking Questions
- Inventions
- Pond Animals
- Animal Friends
- Night Animals
- Rural vs. City
- Jobs in the Community
- Community Leaders
- The Presidency
- Winter Holidays Around the World
- Time and New Years

Semester B; Weekly Themes include:

- Growing Up
- Good Deeds
- Making Mistakes
- Weather Patterns
- Natural Disasters
- Glaciers
- Vacation Days
- Rainy Days
- Lazy Days
- Artists
- Musicians
- Athletes
- Rolling Objects
- Electricity
- Attraction
- Immigration
- Voting/Freedom

Prerequisite: None

Length: Two Semesters

Materials: (Please see link below for a detailed list)

<https://accelerate.education/wp-content/uploads/2017/04/MaterialsElementarySupplies.pdf>

<https://accelerate.education/wp-content/uploads/2017/04/MaterialsGrade3.pdf>

Elem. Science 3 A/ 3 B

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 A; Major Concepts:

- Earth and Sun
- Phases of the moon
- Gravity
- Weather and weather patterns
- Extreme weather
- Five global climate seasons
- Various types of terrain
- Trees and their usefulness to humankind

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.

Semester B; Major Concepts:

- Plant absorption of water
- Photosynthesis
- Characteristics of biomes
- Characteristics of all kind of rocks including caves
- Distinguishing vertebrates from invertebrates
- Plants and animals that have become extinct

Prerequisite: None

Length: Two Semesters

Materials: (Please see link below for a detailed list)

- Basic Kitchen Lab Supplies

<https://accelerate.education/wp-content/uploads/2017/04/MaterialsElementarySupplies.pdf>

<https://accelerate.education/wp-content/uploads/2017/04/MaterialsGrade3.pdf>

Elem. Social Studies 3 A/ 3 B

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 A; Major Concepts:

- Importance of Native American tribes
- Importance of exploration in relation to the US
- Geography and map making skills
- Identifying important land features

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.

Semester B; Major Concepts:

- Understanding important economic fundamentals
- Specialization and interdependence
- Production of goods and importance of trade
- Development of government and laws
- Important documents that shaped the United States
- Principles of a republican government

Prerequisite: None

Length: Two Semesters

Materials: (Please see link below for a detailed list)

- Basic School Supplies

<https://accelerate.education/wp-content/uploads/2017/04/MaterialsElementarySupplies.pdf>

<https://accelerate.education/wp-content/uploads/2017/04/MaterialsGrade3.pdf>

Elem. Math 3 A/ 3 B

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. 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.

Semester A; Major Concepts:

- Estimation
- Properties of Multiplication
- Multiplication and Division within 100
- Place Value to Compute Multi-Digits
- Word Problems

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.

Semester B; Major Concepts:

- Fractions: Equivalency
- Fractions: Relative Size
- Fractions: Placement on Number Line
- Measurement
- Area
- Perimeter
- Mass
- Liquid Volume

Prerequisite: None

Length: Two Semesters

Materials: (Please see link below for a detailed list)

- Basic School Supplies

<https://accelerate.education/wp-content/uploads/2017/04/MaterialsElementarySupplies.pdf>

<https://accelerate.education/wp-content/uploads/2017/04/MaterialsGrade3.pdf>

Elem. Health 3 A/ 3 B

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 personal safety, healthy behaviors, nutrition, disease prevention, conflict resolution, basic anatomy and physiology, and the values of respect and cooperation.

Semester A; Major Concepts:

- Health Communication
- Social Health
- Mental Health
- Injury Prevention

Semester B; Major Concepts:

- Nutrition and Fitness
- The Body
- Disease and Drugs
- Consumer and Environmental Health

Prerequisite: None

Length: Two Semesters

Materials: (Please see link below for a detailed list)

- Basic School Supplies

<https://accelerate.education/wp-content/uploads/2017/04/MaterialsElementarySupplies.pdf>

<https://accelerate.education/wp-content/uploads/2017/04/MaterialsGrade3.pdf>

Elem. Physical Education 3 A/ 3 B

Elementary PE 2-3 helps young learners establish a basic understanding of health and fitness. Students focus on health-related fitness and learn how to become more fit and healthy. Topics of study include warm-up and cool down, water safety, goal setting, nutrition, muscle strength and flexibility. In addition, students learn age-appropriate motor, non-locomotor, and manipulative skills. Students are required to participate in regular physical activity.

Semester A; Major Concepts:

- Your Fitness
- Safety
- Healthy Choices
- Skill and Health

Semester B; Major Concepts:

- Principles of Fitness
- Game Play
- Nutrition
- Your Body

Prerequisite: None

Length: Two Semesters

Materials: (Please see link below for a detailed list)

- Basic School Supplies

<https://accelerate.education/wp-content/uploads/2017/04/MaterialsElementarySupplies.pdf>

<https://accelerate.education/wp-content/uploads/2017/04/MaterialsGrade3.pdf>

4th Grade

Elem. Language Arts 4 A/ 4 B

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 A; Major Concepts:

- Foundational skills for reading and writing
- Literary elements and devices
- Fluency in reading and writing
- Collaborative discussions
- Peer review process and strategies
- Forms of fiction
- Comparing literature

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. 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.

Semester B; Major Concepts:

- Elements of poetry and drama
- Reading strategies for informational text
- Text structures
- Research stages and strategies
- Analyzing and evaluating information
- Writing research reports
- Media literacy
- Oral and multimedia presentations
- English language conventions

Prerequisite: None

Length: Two Semesters

Materials: (Please see link below for a detailed list)

- Novels: A Tale of Despereaux (Kate DiCamillo), Bud, Not Buddy (Christopher Paul Curtis), Tales of a Fourth Grade Nothing (Judy Blume), Wringer (Jerry Spinelli), Pictures of Hollis Woods (Patricia Reilly Giff), Shiloh (Phyllis Reynolds Naylor).

<https://accelerate.education/wp-content/uploads/2017/04/MaterialsElementarySupplies.pdf>

<https://accelerate.education/wp-content/uploads/2017/04/MaterialsGrade4.pdf>

Elem. Science 4 A/ 4 B

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 freshwater, 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 A; Major Concepts:

- The Scientific Method
- Planet Earth
- The Atmosphere and Air
- The Weather
- Galaxies and Stars
- The Solar System and Planets
- Measurements and Instruments
- Matter
- Forces of Motion

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 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.

Semester B; Major Concepts:

- Sound and Light
- Heat and Temperature
- Electricity and Magnetism
- Science and Technology
- Characteristics of Life
- Animals and Plants
- The Human Body
- Biodiversity and Extinction
- Humans Interaction with the Environment

Prerequisite: None

Length: Two Semesters

Materials: (Please see link below for a detailed list)

- Basic Kitchen Lab Supplies

<https://accelerate.education/wp-content/uploads/2017/04/MaterialsElementarySupplies.pdf>

<https://accelerate.education/wp-content/uploads/2017/04/MaterialsGrade4.pdf>

Elem. Social Studies 4 A/ 4 B

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 capitals, 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 A; Major Concepts:

- Topography
- Geography
- Native Americans
- Research Skills
- State history/geography
- Colonial History

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.

Semester B; Major Concepts:

- Frontier life
- Early settlers from particular areas
- Research skills
- Culture of Colonial settlers
- Native Americans and Colonial settlers
- The California Gold Rush
- The evolution of transportation
- The road to statehood

Prerequisite: None

Length: Two Semesters

Materials: (Please see link below for a detailed list)

- Basic School Supplies

<https://accelerate.education/wp-content/uploads/2017/04/MaterialsElementarySupplies.pdf>

<https://accelerate.education/wp-content/uploads/2017/04/MaterialsGrade4.pdf>

Elem. Math 4 A/ 4 B

Semester A

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 A; Major Concepts:

- Multiplication
- Prime and composite numbers
- Patterns
- Place Value
- Number Forms
- Division
- Comparisons and estimation
- Fluency in addition and subtraction
- Fractions (addition, subtraction, and division)

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.

Semester B; Major Concepts:

- Fraction multiplication, Fractions to decimals
- Length
- Measuring weight, mass, and capacity
- Time, distance, and money
- Rectangles
- Line plots
- Angles
- Polygons
- Symmetry

Prerequisite: None

Length: Two Semesters

Materials: (Please see link below for a detailed list)

- Basic School Supplies

<https://accelerate.education/wp-content/uploads/2017/04/MaterialsElementarySupplies.pdf>

<https://accelerate.education/wp-content/uploads/2017/04/MaterialsGrade4.pdf>

Elem. Health 4 A/ 4 B

Elementary Health 4-5 helps young learners establish a basic understanding of the aspects of health. Students focus on the various aspects of their health and how they can make healthy choices. Topics of study include personal safety, reducing illness, avoiding bullying, nutrition, healthy friendships, emergency situations, and the human body. Fourth grade will study the functioning systems of the body. Fifth grade will be covering the reproductive system, puberty and STDs.

Semester A; Major Concepts:

- What is Health
- Social Health
- Personal Health
- Nutrition

Semester B; Major Concepts:

- Influences on Health
- Safety and Emergencies
- Avoiding Bullying
- The Human Body

Prerequisite: None

Length: Two Semesters

Materials: (Please see link below for a detailed list)

- Basic School Supplies

<https://accelerate.education/wp-content/uploads/2017/04/MaterialsElementarySupplies.pdf>

<https://accelerate.education/wp-content/uploads/2017/04/MaterialsGrade4.pdf>

Elem. Physical Education 4 A/ 4 B

Elementary PE 4-5 helps young learners establish a basic understanding of health and fitness. Students focus on health-related fitness and learn how to become more fit and healthy. Topics of study include warm-up and cool down, water safety, goal setting, nutrition, muscle strength and flexibility. In addition, students learn age-appropriate motor, non-locomotor, and manipulative skills. Students are required to participate in regular physical activity.

Semester A; Major Concepts:

- Course Introduction
- Safety
- Improving Fitness
- Physical Health

Semester B; Major Concepts:

- Being Healthy
- Game Play
- Nutrition
- Sportsmanship

Prerequisite: None

Length: Two Semesters

Materials: (Please see link below for a detailed list)

- Basic School Supplies

<https://accelerate.education/wp-content/uploads/2017/04/MaterialsElementarySupplies.pdf>

<https://accelerate.education/wp-content/uploads/2017/04/MaterialsGrade4.pdf>

5th Grade

Elem. Language Arts 5 A/ 5 B

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 A; Major Concepts:

- Foundational skills for reading and writing
- Literary elements and devices
- Literary forms, including poetry and drama
- Fluency in reading and writing
- Collaborative discussions
- English language conventions
- Classic literature

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.

Semester B; Major Concepts:

- Strategies for reading informational text
- Informational text structures
- Research stages and strategies
- Analyzing and evaluating information
- Writing research reports
- Media literacy
- Oral and multimedia presentations
- Peer review process and strategies
- English language conventions

Prerequisite: None

Length: Two Semesters

Materials: (Please see link below for a detailed list)

- Novels (chosen by student with teacher input and approval)

<https://accelerate.education/wp-content/uploads/2017/04/MaterialsElementarySupplies.pdf>

<https://accelerate.education/wp-content/uploads/2017/04/MaterialsGrade5.pdf>

Elem. Science 5 A/ 5 B

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 A; Major Concepts:

- Scientific Inquiry
- Physical Science
- Forces and Movement
- Lights and Sound
- Light, heat, electricity, and magnetism
- Life Science
- Energy and Food Chains
- Producers and Consumers
- The Earth and Space Science
- Science and Technology

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.

Semester B; Major Concepts:

- Scientific Inquiry: Ability and Understanding of Scientific Inquiry
- Life Science: Ecosystems
- Plants: Stems and Transportation
- Plants: Photosynthesis
- Plants: Reproduction
- Nutrition
- Cell Division
- Natural Objects vs. Objects Made by Humans
- Understanding Science and Technology

Prerequisite: None

Length: Two Semesters

Materials: (Please see link below for a detailed list)

- Basic Kitchen Lab Supplies

<https://accelerate.education/wp-content/uploads/2017/04/MaterialsElementarySupplies.pdf>

<https://accelerate.education/wp-content/uploads/2017/04/MaterialsGrade5.pdf>

Elem. Social Studies 5 A/ 5 B

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 A; Major Concepts:

- American History
- Chronology
- Settlement and Growth
- People in Societies
- Cultures
- Native American Interaction
- North American Geography
- Places and Regions
- Economics, Markets
- Scarcity and Resource Allocation
- Production, Distribution, and Consumption
- United States Government
- Role of Government
- Rules and Laws

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 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.

Semester B; Major Concepts

- American History
- Western Frontier
- The Underground Railroad
- Sociology
- Women in the U.S, Diverse Culture in the U.S.
- Economics
- Geography, Climate
- Regions of the United States
- Civics
- Local Government

Prerequisite: None

Length: Two Semesters

Materials: (Please see link below for a detailed list)

- Novels

<https://accelerate.education/wp-content/uploads/2017/04/MaterialsElementarySupplies.pdf>

<https://accelerate.education/wp-content/uploads/2017/04/MaterialsGrade5.pdf>

Elem. Math 5 A/ 5 B

Semester A

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 A; Major Concepts:

- Operations and Expressions
- Patterns and Graphs
- Place Values
- Powers of Ten
- Decimals
- Fractions

Semester B

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.

Semester B; Major Concepts:

- Ratios
- Fractions
- Formulas
- Measurement Conversions
- Length, weight, and volume
- Geometry

Prerequisite: None

Length: Two Semesters

Materials: (Please see link below for a detailed list)

- Basic School Supplies

<https://accelerate.education/wp-content/uploads/2017/04/MaterialsElementarySupplies.pdf>

<https://accelerate.education/wp-content/uploads/2017/04/MaterialsGrade5.pdf>

Elem. Health 5 A/ 5 B

Elementary Health 4-5 helps young learners establish a basic understanding of the aspects of health. Students focus on the various aspects of their health and how they can make healthy choices. Topics of study include personal safety, reducing illness, avoiding bullying, nutrition, healthy friendships, emergency situations, and the human body. Fourth grade will study the functioning systems of the body. Fifth grade will be covering the reproductive system, puberty and STDs.

Semester A; Major Concepts:

- What is Health
- Social Health
- Personal Health
- Nutrition

Semester B; Major Concepts:

- Influences on Health
- Safety and Emergencies
- Avoiding Bullying
- The Human Body

Prerequisite: None

Length: Two Semesters

Materials: (Please see link below for a detailed list)

- Basic School Supplies

<https://accelerate.education/wp-content/uploads/2017/04/MaterialsElementarySupplies.pdf>

<https://accelerate.education/wp-content/uploads/2017/04/MaterialsGrade5.pdf>

Elem. Physical Education 5 A/ 5 B

Elementary PE 4-5 helps young learners establish a basic understanding of health and fitness. Students focus on health-related fitness and learn how to become more fit and healthy. Topics of study include warm-up and cool down, water safety, goal setting, nutrition, muscle strength and flexibility. In addition, students learn age-appropriate motor, non-locomotor, and manipulative skills. Students are required to participate in regular physical activity.

Semester A; Major Concepts:

- Course Introduction
- Safety
- Improving Fitness
- Physical Health

Semester B; Major Concepts:

- Being Healthy
- Game Play
- Nutrition
- Sportsmanship

Prerequisite: None

Length: Two Semesters

Materials: (Please see link below for a detailed list)

- Basic School Supplies

<https://accelerate.education/wp-content/uploads/2017/04/MaterialsElementarySupplies.pdf>

<https://accelerate.education/wp-content/uploads/2017/04/MaterialsGrade5.pdf>

Grades 3-5 World Languages

Elem. Chinese 1 A/ 1 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

Major Concepts:

- Engage in language learning
- Understand and produce common vocabulary terms and phrases
- Interpret meaning from authentic Chinese fables and stories
- Compare cultural practices and perspectives of China and Chinese-speaking communities
- Regularly assess progress through quizzes and speaking submissions

Prerequisite: None

Length: Two Semesters

Materials: Basic School Supplies

Elem. Spanish 1 A/ 1 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.

Major Concepts:

- 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
- Recognize distinctive practices and products of various Spanish-speaking countries

Prerequisite: None

Length: Two Semesters

Materials: Basic School Supplies

Music

Elem. Recorders Level 1 (Grade K-3)

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.

Major Concepts:

- Sing songs from the songbook
- Act out small dramas using Finger plays
- Play the following notes B, A, and G
- Progress through the Beginning Recorder Book practicing songs until able to play fluidly

Prerequisite: None

Length: One Semester

Materials: Recorder

Art

Elem. 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.

Major Concepts:

- Cooperation
- Self-expression
- Promotes greater awareness of details
- Promote development of fine motor skills
- Colors, Lines, Shapes
- Symmetry/mirror painting
- Printmaking

Prerequisite: None

Length: One Semester

Materials: Basic Art and Crafting Supplies

Elem. 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.

Major Concepts:

- Cooperation
- Self-expression
- Promotes greater awareness of details
- Promote development of fine motor skills
- Colors
- Lines for texturing and action
- Shapes
- Symmetry/mirror painting
- Printmaking
- Create artwork using various mediums
- Mixing mediums for artwork

Prerequisite: None

Length: One Semester

Materials: Basic Art and Crafting Supplies

Elem. 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.

Major Concepts:

- Increase self-confidence
- Develop awareness of cooperation
- Enhance the use of imagination
- Elements of Color
- Various art forms
- Attention to detailing
- Feeling materials to make art
- Combining art forms
- Discovering effects of light

Prerequisite: None

Length: One Semester

Materials: Basic Art and Crafting Supplies

Elem. 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.

Major Concepts:

- Review of art basics
- Learn the importance of composition and rhythm in artwork
- Learn and experience the influences of other cultures and master artists
- Use self-expression through ideas and personal experiences
- Experience self-discovery by using various art forms
- Increases self-confidence

Prerequisite: None

Length: One Semester

Materials: Basic Art and Crafting Supplies

Technology

Keyboarding (Grades 3-8)

The keyboarding course is appropriate for elementary and middle school students. The curriculum introduces new keys by rows where 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 them through the keyboard.

Prerequisite: None

Length: One Semester

Materials: Students will need a computer or a laptop for this course; tablets are not sufficient

Scratch Coding (Grades 3-8)

Scratch is a program developed by MIT teaching students the basics on how computers think! This program will introduce students to real coding programs and allow them to drag and drop coding blocks creating a fully functional program. The simple user interface and tutorials allow students to quickly create and run their code to see its results! This course assumes no prior computer coding knowledge and includes self-graded multiple-choice tests and quizzes.

Prerequisite: None

Length: One Semester

Materials: Students will need a computer or a laptop for this course; tablets are not sufficient

Odysseyware®



ODYSSEYWARE® is an innovative leader in digital learning across PA and the entire U.S., offering standards-aligned learning resources for grades 3-12, with built-in assessments, and dashboard access to actionable data.

Curriculum and Support

Instructional Design: All curriculum is based on an instructional design framework including systematic organization, backward design, explicit instruction, multimodal engagement, and gradual release of responsibility.

Vocabulary/Reference: Definitions and correct pronunciation of key academic vocabulary are provided at the beginning of every lesson. Students can lookup background information and context about any words or phrases.

Translation Tool/ELL Support: Any selected text included in the lessons can be translated into 23 languages with audio support.

Text-to-Speech Audio Supports: Six different voice readers are available at six fluency rates. Students can follow along with automated highlighting and tracking of words as they read.

Teacher and Students Notes: Students can take notes within the context of the lesson, adding interactive color-coded sticky notes, promoting informal writing and annotating text. Teacher notes can be added as additional scaffolds. Notes can also be printed and used as study guides.

Message Tool: Students can virtually raise their hand and communicate with their teacher using the message tool at any time as well as the “Ask for help” tool embedded within assessments.

Writer Tool: Applies six proven writing analysis indices for accurate scoring and feedback on topic consistency, grammar, spelling and word count.

Direct Instruction Media: Short (2-3 minute) direct instruction videos provide students step-by-step guidance in the conceptual understanding of key skills, impart background knowledge, and place concepts into real-world context. Videos follow a social media type approach, allowing students to fast-forward, rewind, and play them as often as needed.

Video Transcript: A text transcript is available for embedded instructional videos, which can be translated using the Translation Tool.

Embedded Instructional Strategies: Embedded throughout the lesson content are guided and independent practices, quizzes, and assessments.

Virtual Labs: Virtual Labs in math and science recreate and expand the traditional student laboratory experience. Virtual Labs are fully interactive and built to encourage active learning, engagement, and the application of conceptual understanding.

Assessment Types: Courses include diagnostic, prescriptive, formative, and summative assessments. Assessments are aligned to Webb’s DOK levels, with an emphasis on levels 2, 3, and 4. Questions are aligned to specific sections of the lessons, promoting close reading of text and text evidence.

Project-based Assessments: Several of our courses, such as our CTE courses, also include project-based assessments culminating in a capstone project.

Course Delivery System

Learning Management System (LMS): All courses are ‘housed’ on a single platform. Courses are fully HTML5 compliant and Java free, meaning no extra plugins such as Flash are needed, and therefore, is accessible on all devices!

Next Generation Type Questions: We offer a dozen question types, as well as different technology-enhanced item types like drag and drop, multiple select, and constructed response to prepare students for next generation assessments.

Course Types

Courses: Odysseyware offers an extensive library for grades 3-12 of more than 300 standards-aligned courses and instructional materials in core subjects, AP[®] and electives, CTE courses, and test prep, as well as **NCAA-approved courses**.

Advanced Placement (AP[®]) & Electives: AP[®] courses are College Board approved, and courses include areas such as fine arts, world languages, Keyboarding, Principles of Coding, Calculus, business, engineering, economics, health, physical education and more!

Career Technical Education (CTE): Odysseyware offers 80+ CTE courses aligned to each of the 16 national career clusters. Career clusters include a progression of related courses, supporting students in their preparation for career-pathway-specific certifications.

Career Exploration: We offer several courses designed to provide students exposure to career options and planning in middle school and early high school.

Test Prep: Odysseyware provides college entrance assessment prep for the ACT[®], and high school equivalency prep for the GED[®], HiSET[®], and TASC[™].

Blended Learning: In addition to the 300+ courses, Odysseyware also offers a Blended Learning Library designed specifically for use within math and English language arts courses, with nearly 800 lessons for grades 6–12!

Credit Recovery (Mastery-Based Instruction Mode): Our diagnostic, prescriptive mode tailors learning for students by allowing them to take a pre-test at the beginning of each unit – and based on student performance, individualized learning paths are automatically created!

Intervention: SPARK: A K-8 assessment and remediation tool for English Language Arts and Reading (ELAR) and mathematics, that provides efficient and targeted skills practice and remediation.

Social Emotional Learning (SEL): BASE Education for grades 6-12 is a powerfully-engaging, SEL solution, backed by research, for both prevention and intervention. With over 60 courses available now and a separate portal for parents/guardians, the systemic BASE Education approach helps students learn to build strategies to handle issues such as anger, bullying, self-esteem, communication, substance abuse, helplessness and motivation. **New courses, including for grades 3-5, to release fall 2018.**

Course Options

Customization: Teachers can customize or personalize learning paths, author new courses, and monitor student progress with easy-to-use data functions via the Odysseyware platform. Schools also have the ability to embed district-approved content as well.

Personalized Learning Paths: Odysseyware is a proud partner of the Northwest Evaluation Association™(NWEA™). Educators who administer Measures of Academic Progress® (MAP®) can now import test results into Odysseyware to generate individualized learning paths.

Odysseyware PA Teacher-Certified and Virtual Services: Odysseyware offers PA certified teachers for schools needing virtual learning programs for NCAA athletes, homebound students, students who need to access their instruction mostly or completely outside of the brick and mortar school, and/or students looking to accelerate their learning. Parents also have the option to enroll their children directly in **Odysseyware Academy** for skill practice, test prep, and/or homeschool curriculum.

Course Versions

Comprehensive	For students at grade level or slightly below and who work well independently and can manage large tasks to completion.
Foundations (core ELA and Math courses)	For students who need a sequence that more explicitly teaches foundational skills and need more practice in building foundational reading, writing and grammar skills or math skills.
Pacing Plus	For students that may struggle with time management or the completion of large tasks, the number of projects has been reduced in order to help students achieve course pacing goals
Credit Recovery Mode	For students who are retaking a course or need to accelerate their learning; students take a pretest before each unit to demonstrate mastery of content and then work ONLY on lessons with concepts they have not yet mastered. Also referred to as Mastery-Based Instruction mode.

3rd Grade

Language Arts 300

Language Arts 300 focuses on the sequential development and integration of communication skills in four major areas: reading, writing, speaking, and listening. It most specifically focuses on deepening and furthering students' understanding in the following ways:

- Reading introduces students to basic reading skills, including the identification of main ideas, supporting details, sequence, and facts and opinions. Students learn close reading strategies to use in short stories, a short play, poetry, and fables. Students learn to read digital text also. Special attention has been paid to teaching students advanced word decoding skills. As students begin to read more advanced texts, students will need to have decoding skills to read larger words. Students will also be introduced to choosing “just right” books and completing book reports.
- Writing develops students’ understanding of sentence structure, providing hands-on experience with complete sentences and build to writing complete paragraphs. Students will use graphic organizers to follow the writing process to write for a variety of genres including; personal narratives, fictional stories, poetry, and nonfiction texts. Students will develop vocabulary skills by learning and identifying homographs, synonyms, and antonyms. Students are introduced to roots and affixes, and word relationships. On the mechanics side, students will be introduced to cursive handwriting. Various grammar topics are introduced to build students use of writing conventions.
- Speaking Students will be given the opportunity to use their verbal communication skills in a variety of projects. Students will participate in classroom discussions. Students will also compare and contrast written word versus spoken word. Additionally, students will integrate multimedia elements into creating presentations.

Special Topics introduces basic research skills, academic language, letter writing, and how to gather information from surveys and interviews.

Prerequisite: None

Length: Two Semesters

Required Materials: An English dictionary, preferably a student edition, either print or electronic. Students may choose one of the following in order to complete a story organizer:

- 1) Chester the Worldly Pig, by Bill Peet, Houghton Mifflin, 1965
- 2) Fantastic Mr. Fox, by Roald Dahl, Alfred A. Knopf, 1970.
- 3) Frog and Toad All Year, by Arnold Lobel, Harper & Row, 1976.
- 4) Only One Woof, by James Herriot, St. Martin's Press, 1985.
- 5) Why Mosquitoes Buzz in People's Ears, by Aardema, Dillion, 1976. Caldecott Medal Award book.

Any print version of the story Cinderella, Any film version of the story Cinderella. Students may choose one of the following in order to complete a story organizer:

- 1) Abe Lincoln Grows Up, by Carl Sandberg, Harcourt, 1985
- 2) Buffalo Hunt, by Russell Freedman, Holiday House, 1998
- 3) The Plymouth Thanksgiving, by Leonard Weisgard, Doubleday, 1967
- 4) Promise of a New Spring, by Gerda Klein, Rossel Books, 1981
- 5) Young Frederick Douglass: Fight for Freedom, by Laurence Santrey, Troll, 1983

Course Types: Comprehensive, Comprehensive Credit Recovery

Spelling 300

Each grade level course includes thirty weeks of short, engaging activities that work outside of a traditional Language Arts course, but can also be easily integrated due to their ten-fifteen minute lesson expectations. Course "units" are set up by word families or spelling rules for each week, and include five days of activities. Each day of activity has a deeper complexity of familiarity and application of the spelling list, culminating in an assessment on day five. Alternate assignments are available for teachers to add extra practice and variety to the course.

Prerequisite: None

Length: Two Semesters

Required Materials: Audio capability, headset

Course Types: Comprehensive

History and Geography 300

The third grade curriculum is an exploration of the history and geography of the United States. The intent of the course is to give the student an overview of the United States. The student will learn map terminology such as latitude, longitude, and compass rose. These and other geographical terms, along with an overview of the geography of the United States, will help the student discuss and understand the geography of the United States.

Prerequisite: None

Length: Two Semesters

Required Materials: Internet Access

Course Types: Comprehensive, Comprehensive Credit Recovery

Mathematics 300

Math 300 is a full-year elementary math course focusing on number skills and numerical literacy. In it, students will gain solid experience with number theory and operations, learning how to apply these in measurement situations. This course also integrates geometric concepts and skills throughout the units, as well as introducing students to statistical concepts.

Prerequisite: None

Length: Two Semesters

Required Materials: Paper, pencil, drawing supplies

Course Types: Comprehensive, Comprehensive Credit Recovery

Science 300

Science 300 is a basic elementary course intended to expose students to the designs and patterns in the physical universe. This course provides a broad survey of the major areas of science. Some of the areas covered in Science 300 include the human body, plants, animals, health and nutrition, matter, sound waves, earth science, and heat energy.

The curriculum seeks to develop the students' ability to understand and participate in scientific inquiry. The units contain experiments and projects to capitalize on children's natural curiosity. The students will explore, observe and manipulate everyday objects and materials in their environment. Collectively, this should help students develop a subject-matter knowledge base.

Prerequisite: None

Length: Two Semesters

Required Materials: A clock with a second hand, internet research resources, access to USDA and potentially an account with SuperTracker, word-processor software

Course Types: Comprehensive

4th Grade

Language Arts 400

Language Arts 400 focuses on the sequential development and integration of communication skills in four major areas—reading, writing, speaking, and listening. It more specifically focuses on deepening and furthering students' understanding in the following ways:

- **Reading:** Students will continue to build fluency and independent reading skills by further developing comprehension strategies. Students will read a wide variety of genres including fiction, nonfiction, and poetry. Students will also use text features and graphic elements to build nonfiction comprehension skills. Across the genres, students analyze text to determine and identify, main ideas, supporting details, and sequence. Students will use inferencing skills to draw conclusions based on text. Students will differentiate fact from opinion in text. The texts have been chosen to further develop students' vocabulary skills. Students will learn how to determine meanings of unknown words in context. Students will also learn more about word parts and academic language to further develop their vocabulary.
- **Writing:** Using graphic organizers and following the writing process from brainstorming to final draft, students' writing skills will become stronger. Students will write for a variety of genres, include fictional stories, poetry, and informational text. Students will learn more complex paragraph structure. Students will also learn to make their writing come to life by learning about figurative language. Students begin to identify reliable sources of information and how to give credit to those sources. Integrated within the writing curriculum are grammar and convention lessons including; developing students' understanding of sentence structure, providing hands-on experience with subject-verb agreement and parts of speech. Students continue their learning of cursive handwriting.
- **Speaking:** Integrated into the Language Arts Curriculum are several projects in which students will apply their speaking skills. Students will plan for and participate in discussions. Students will orally present written work.
- **Listening:** Special attention is placed on developing student listening skills. Students will learn strategies for listening in different environments. Students will learn how to paraphrase claims that they have heard in a discussion.

Special Topics: Teaches research skills, citing reliable sources and preparing study notes.

Prerequisite: Language Arts 300 Recommended

Length: Two Semesters

Required Materials: A English dictionary, preferably a student edition, ability to research pictures of flowers, birds, animals, nature scenes, rain, snow, etc. Students may choose ONE of the following in order to complete a story organizer:

- 1) *Fantastic Mr. Fox*, by Roald Dahl, Alfred A. Knopf, 1970.
- 2) *Gentle Ben*, by Walt Morey, Avon, 1976.
- 3) *Indian in the Cupboard*, by Lynn Reid Banks, Doubleday, 1981.
- 4) *It's a Mile From Glory*, by Robert C. Lee. Little, Brown and Co., 1972.
- 5) *James and the Giant Peach*, by Roald Dahl, Bantam, 1978.

Students may choose ONE of the following in order to complete a story organizer:

- 1) *The Astronomy Book*, by Dr. Jonathan Henry, Master Books, 1999.
- 2) *The Weather Book*, by Michael Oard, Master Books, 1997.

Wide-ruled notebook paper is recommended for student use.

Choose ONE of the books in the list below for a book report on fairy tales, fables, or folklore.

GENERAL FOLKTALES:

- Llama and the Great Flood; a Folktale from Peru*, by Ellen Alexander, Crowell, 1989.
The Tale of Three Trees, retold by Angela Elwell Hunt, Lion Publishing Company, 1989.

FAIRY TALES and FANTASY:

Fairy Tales and Stories, by H. C. Andersen. A Wonder-Book for Girls and Boys, by Nathaniel Hawthorne.
The Nutcracker Ballet, retold by Deborah Hautig, Random House, 1992.
Rapunzel, by Brothers Grimm, retold and illustrated by Bernadette Watts, Thomas Y. Crowell Co, 1975.
The Snow Queen, by Hans Christian Andersen, translated by Naomi Lewis, Henry Holt and Co. 1979.

TALL TALES:

Johnny Appleseed, retold and illustrated by Steven Kellogg, Morrow Junior Books, 1988.
Mr. Yowder and the Train Robbers, by Glen Rounds, 1981, Holiday House.
Pecos Bill, retold and illustrated by Steven Kellogg, Morrow Junior Books, 1986.
Paul Bunyan, retold and illustrated by Steven Kellogg, Morrow Junior Books, 1984.

FABLES:

Aesop's Fables, by Aesop, illustrated by A. J. McClaskey, retold by Ann Mcgovern, Scholastic, 1963.
Fables, by Arnold Lobel, Harper & Row, 1980. Caldecott Medal Winner.
The Fisherman and His Wife, by Jacob Grimm, Farrar, 1980.

An encyclopedia or the Internet to learn more about Native American Culture.

Course Types: Comprehensive, Comprehensive Credit Recovery

Spelling 400

Each grade level course includes thirty weeks of short, engaging activities that work outside of a traditional Language Arts course, but can also be easily integrated due to their ten-fifteen minute lesson expectations. Course "units" are set up by word families or spelling rules for each week, and include five days of activities. Each day of activity has a deeper complexity of familiarity and application of the spelling list, culminating in an assessment on day five. Alternate assignments are available for teachers to add extra practice and variety to the course.

Prerequisite: Spelling 300 Recommended

Length: Two Semesters

Required Materials: Audio capability, headset

Course Types: Comprehensive

History and Geography 400

History and Geography 400 focuses on World Geography, describing the surface of the earth and its natural features (biomes). It also teaches about cultural distinctives, placing special emphasis on North American geography and culture. Then, expanding on instruction, it presents a survey of earth and space explorations. These areas of focus target three major content strands: Geography, History, and Social Studies Skills.

Prerequisite: History and Geography 300 Recommended

Length: Two Semesters

Required Materials: Internet, encyclopedia or other research materials, Paper, pencils, or other writing materials, Printer, Favorite spice, trip to the grocery store, Favorite food using spices, Map with coordinate grid system, Almanac, 1 pkg quick growing seeds (marigold or lima beans work well), 2 containers for planting, Potting soil, sand, wildlife magazine, A trip to the library, A trip to the bank, Maps, charts, pictures

Course Types: Comprehensive, Comprehensive Credit Recovery

Mathematics 400

Math 400 is a full-year elementary math course focusing on number skills and mathematical literacy. In it, students will gain solid experience with number theory and operations, including decimals and fractions. This course also integrates geometric concepts and skills throughout the units, teaches measurement skills, and introduces students to statistical concepts.

Prerequisite: Mathematics 300 Recommended

Length: Two Semesters

Required Materials: A protractor, 4 small paper bags, large glass jar, and assorted objects of 4 different colors.

Course Types: Comprehensive, Comprehensive Credit Recovery

Science 400

Science 400 is a basic elementary course intended to expose students to the designs and patterns in the physical universe. This course builds on concepts taught in Science 300, providing a broad survey of the major areas of science. Some of the areas covered in Science 400 include the study of plants and animals, ecology, work and simple machines, electricity and magnetism, properties of water and matter, weather, the solar system, and the different spheres of earth.

The curriculum seeks to develop the students' ability to understand and participate in scientific inquiry. The units contain experiments and projects to capitalize on children's natural curiosity. The students will explore, observe, and manipulate everyday objects and materials in their environment. Collectively, this should help students develop and build on their subject-matter knowledge base.

Prerequisite: Science 300 Recommended

Length: Two Semesters

Required Materials: Word processing software, internet research resources, spreadsheet software

Course Types: Comprehensive

5th Grade

Language Arts 500

Language Arts 500 continues to build on the sequential development and integration of language arts skills in four major areas—reading, writing, speaking, and listening. It most specifically focuses on deepening and furthering students' understanding in the following ways:

- Reading develops students' comprehension skills. Special attention is placed on reading non-fiction texts. Students identify text features and explain how graphic elements lead to comprehension. Students read procedural texts and learn more about media literacy. Students continue to learn how to read for meaning across many genres such as historical fiction, short stories, and poetry. In all genres, students continue to build comprehension strategies including; the identification of main ideas, supporting details, sequence, and facts and opinions. Students continue to build more advanced reading skills, such as making inferences and drawing conclusions. Students continue to work with words by looking closely at academic language. Students learn how dialects in text contribute to the overall meaning of the text. Students also learn how to analyze and memorize primary sources.
- Writing builds on students' understanding of paragraphing. Following the writing process from brainstorming to final project, students write for a variety of purposes and audiences. Student utilize technology tools such as spell check and multimedia elements to polish and publish writing. Students continue to build grammar skills in support of clear communication. Students work with words by identifying homonyms, synonyms, and antonyms. Students are guided through creating an essential question, planning, organizing, writing, and revising an informational report.
- Speaking skills are built upon in Language Arts 500. Students memorize and recite the powerful Gettysburg Address. Students also learn what good communication is and how to practice this in all areas of their lives. Additionally, students prepare for a classroom discussion. Students participate in, and summarize claims made within the discussion. Students also prepare and give an oral presentation.

Prerequisite: Language Arts 400 Recommended

Length: Two Semesters

Required Materials: An article from a newspaper. Choose ONE of the books in the list below for a nonfiction book report:

- 1) Buffalo Hunt, by Russell Freedman, published by Holiday House, 1988.
- 2) Growing Up Amish, by Richard Ammon, published by Atheneum, 1989.
- 3) Linnea's Windowsill Garden, by Christine Bjork, published by Farrar, Straus & Giroux, 1988.
- 4) Maggie by My Side, by Beverly Butler, published by Dodd & Mead, 1987.
- 5) The Story of Football, by Dave Anderson, published by Morrow, 1985.

An advertisement from a newspaper, magazine, or other source, Collect pictures of people from magazines or newspapers to use as characters in stories, printer (to include printed versions of all poems students wrote throughout the unit, and create a cover page). Choose ONE of the books in the list below for a biography book report:

- 1) Martha Washington, First Lady, by Stephanie McPherson, Enslow publishers, 1998.
- 2) Clara Barton, Civil War Nurse, by Nancy Whitelaw, published by Enslow Publishers, 1997.
- 3) Mark Twain: Legendary Writer and Humorist, by Lynda Pflueger, published by Enslow Publishers, 1999.
- 4) Alexander Graham Bell: Inventor and Teacher, by Michael A. Schuman, published by Enslow Publishers, 1999.

Course Types: Comprehensive, Comprehensive Credit Recovery

Spelling 500

Each grade level course includes thirty weeks of short, engaging activities that work outside of a traditional Language Arts course, but can also be easily integrated due to their ten-fifteen minute lesson expectations. Course "units" are set up by word families or spelling rules for each week, and include five days of activities. Each day of activity has a deeper complexity of familiarity and application of the spelling list, culminating in an assessment on day five. Alternate assignments are available for teachers to add extra practice and variety to the course.

Prerequisite: Spelling 400 Recommended

Length: Two Semesters

Required Materials: Audio capability, headset

Course Types: Comprehensive

History and Geography 500

History and Geography 500 focuses on two major areas, American History and Geography. The course covers American History from early exploration through the Reconstruction, with special emphasis given to inventions and technology of the 19th and early 20th centuries, and geography of the Americas, with special emphasis on Mexico, Canada, and U.S. regional geography. These areas of focus target four major content strands: History, Geography, Government and Citizenship, and Social Studies Skills.

Prerequisite: History and Geography 400 Recommended

Length: Two Semesters

Required Materials: Internet, encyclopedia or other, research materials, Paper, pencils, or other writing materials, Printer, Map of thirteen colonies, Construction paper, Map, Newspaper clipping about a different state than where you live

Course Types: Comprehensive, Comprehensive Credit Recovery

Mathematics 500

Math 500 is a full-year elementary math course focusing on number skills, mathematical literacy, and geometric concepts. Students will gain solid experience with number theory and operations, including whole numbers, decimals, and fractions. In addition, students will develop their understanding of measurement and two- and three- dimensional figures. This course also integrates mathematical practices throughout the units, as well as introducing students to algebraic, statistical, and probability concepts.

Prerequisite: Mathematics 400 Recommended

Length: Two Semesters

Required Materials: Scratch paper/notebook, graph paper, pencil

Course Types: Comprehensive, Comprehensive Credit Recovery

Science 500

Science 500 is a basic elementary course intended to expose students to the designs and patterns in the physical universe. This course expands on the Science 300 and Science 400 courses, providing a broad survey of the major areas of science. Some of the areas covered in Science 500 include the study of cells, plants and animals, ecology, energy, geology, properties of matter, and the natural cycles of life.

The curriculum seeks to develop the students' ability to understand and participate in scientific inquiry. The units contain experiments and projects to capitalize on the students' natural curiosity. The students will explore, observe, and manipulate everyday objects and materials in their environment. Students at this level should begin to understand interrelationships between organisms, recognize patterns in ecosystems, and become aware of the cellular dimensions of living systems. Collectively, this should help students develop and build on their subject-matter knowledge base.

Prerequisite: Science 400 Recommended

Length: Two Semesters

Required Materials: Household items to be used for experiments, Word processing software, internet research resources, spreadsheet software.

Course Types: Comprehensive