

Elementary Virtual Courses

Course Name	Course Description
Art	At the students own pace, they will discover and explore different art mediums, artists, and styles. Basic terminology such as color, texture, lighting, shading, and texture will be applied different art mediums the student will explore. Students will submit examples of their artwork and explorations throughout the year.
Art 100	In Art 1, students explore the roles of both groups of people. Students learn how daily life can be used as inspiration, and how it can be depicted through artwork. They categorize artworks according to the subject matter each is portraying. Additionally, students learn to recognize the elements of art and the principles of design, and they rate artwork. Students explore the ways in which artwork is created outside of the school setting, and they discover that art is made for different reasons. As practicing artists, students develop their art vocabulary, art understanding, and artistic skills as they work through prompts supplied in the course.
Art 200	In Art 2, students explore artistic expression of their own personal interests. They learn to organize art into categories and to identify the various methods and materials used to create art. Throughout this course, students expand their artistic vocabulary, using it to describe the works they are studying. They explore the ways in which color can represent mood in artworks and create their own works to express their mood. While learning safe procedures for working with artistic materials, students experiment with mixing colors. In addition to creating artworks that depicts family, school, and community life, students also gain familiarity with works from European and Asian cultures.
Art I	Delve into great beginning art projects that cover a variety of mediums. Students will get introduced to the basic concepts of different art mediums, their definitions and how to apply them through fun projects. They will get to be creative, gain skills and explore the different materials used and also shown how to take care of art supplies properly. Young artists will gain appreciation of art and artists from around the world.
Art K	In Art K, students are introduced to the ways in which they can express ideas and demonstrate their creativity through art. Throughout this course, students are encouraged to use their imagination to create art. They use a wide variety of materials to make their artwork, and they learn safe methods for using those materials. They explore the importance of working with others by collaborating both to create art and to solve artistic problems. Students use multiple techniques while working with the same artistic medium, and they create various scenes, including a nature scene, a construction scene, and an underwater scene. This course will teach students to develop and carry out a plan to create and revise their work, and it guides them through the process of creating a personal art portfolio. In addition, Art K-1 encourages students to begin thinking about the artwork of others. They learn about well-known artists and the common tools those artists used. They also learn about art museums and consider how pieces of artwork make them feel. Finally, students create works of art that are of a more personal nature, including art depicting their own community, a self-portrait, and an illustration of their favorite book. Throughout Art K-1, students learn art terminology so that they are able to connect ideas and demonstrate the beginnings of a strong artistic foundation.
Beginner Sewing	Students will learn the basics of hand and machine sewing. They will learn to cut, and assemble simple projects and use an iron safely. Projects will be items such as simple stuffed animals, tote bags, dress up capes, and pajama pants.
Build	Tinker crates, fix-it projects, taking ideas from concept to finished projects is what build class is about. Students will learn the design process, find the right tools and materials and complete their own projects. Concepts will include materials, tools, fasteners, paints, and how to make the right choices for their projects. Students will submit the plans and photos of their projects throughout the school year.
Cheerleading	Our Discovery Center Turtles Cheerleaders will bring the fire and amp up school spirit through a learned combination of stunts, cheers, chants, jumps, dances and performances. With a heavy focus on leadership, safety, technique and team building skills, our cheerleaders will learn what it takes to be peer ambassadors, spirit raisers, athletes and entertainers.
Computers	Students will learn basic computer skills. Software taught will include; Excel, CAD, Quicken, and Fusion360. Students will also be learning typing skills, and other simple things like saving, archiving, and networking.
Cooking	Cooking, we all need to do it sometime in our life. Eating healthy is difficult without basic cooking skills. Students will learn the basics of cooking healthy foods. Kitchen safety and proper food handling and storage are a must. Students will learn the basics of measuring, baking, following recipes, and how to improvise with what is in the fridge.
Cooking Around the World I	Learn some cooking basics while traveling the globe while learning about food. Your student will take away basic kitchen safety rules (stove, oven, knives, simple kitchen tools), learn about the importance of hand washing, clean-up and more all while being immersed in different types of music and cultures. They will learn some geography, climate and agricultural information about the country they are cooking from.
Cooking I	Young students will learn kitchen safety and basic cooking skills. Healthy eating will be made simple and fun as students gain self-sufficiency.
Digital Works	Digital media surrounds us today, but how is it created? Students will learn how to take edit and publish digital photos, videos, and sound recordings. Students will record and edit and upload digital videos. This class also includes learning various iOS, PC, and MAC software to help students create edit and store their digital media files.
DIY	Do it Yourself. Find an idea, obtain the materials, complete your project. Students will complete a variety of projects while documenting their learning along the way.
Entrepreneurship	What does it take to start your own business. Students will follow a program to step by step learn how to start and run their own business. Dig into creating your ideal customer, design a marketing plan, run the numbers, develop your product, and launch your own business.
Explore Nature	The world is full of magic things, patiently waiting for our senses to grow sharper. Sharpen your senses, hone your power of observation and learn about the life that shares the Copper Country with us. Learn about local plants, birds, mammal, weather, water, and soils. Keep your observations in your journal and learn to use field guides to help us understand the natural world around us.
Explore Your World	Local, region, state, country, continent, world, we live in a large place bursting with diversity. Challenge yourself to explore the world around you and share it with others. Visit a community event, participate in a fundraiser, see a performance, visit a nature area, learn about another culture or country. The challenge is to explore the world around you and journal comparing and contrasting your experiences, and sharing them with others.
Farming & Gardening	What does it take to start and run a farm? Learn about soil science and seeds, weeds and pests, fruit and vegetables. Research and planning are what makes a good farm. Plan what you want to grow then go out and do it. Journal your successes and learn to cook them.
Foreign Language	The history and spirit of a culture is in its language. Challenge yourself to learn a different language. The first new language is the hardest, so get over the hard part and then learn a few more. Practice listening, speaking, and writing in your new language. Study vocabulary and journal your progress.
General Music	Introductory level instruction aimed to develop tonal, rhythmic, and analytical skills in music. Students will be able to sing within the context of a key, remain on pitch, and use a healthy singing voice. Students will be able to read, compose, and perform basic rhythms. Students will be able to discuss, identify, and understand basic music concepts.
Healthy Living	Healthy living; get plenty of sleep, exercise, and eat good food. Is there more to healthy living than that? Let's look deeply into what leads to a healthy lifestyle and learn to gather data and separate fact from fiction as we start a life-long journey towards healthy living. Students will keep a journal of their findings and progress.
Hobby	Learn to do something new. Be a lifelong learner by starting a new hobby. Do the initial research, collect the supplies and equipment needed, and make the beginner mistakes as we learn by doing. Students will keep a journal of their progress into their new hobby, be it mt. biking, stamp collecting, blacksmithing, survival, or singing.
Home Economics	How much do we spend on food in a month, how do you pay the water bill, how do I cook my favorite meal? We will all manage our own living space at some point. Learn about life on your own from balancing checkbooks to fixing the washing machine. Students will keep a journal of their learning and progress throughout the year.
Horsemanship	Students will learn the basics of care and handling of horses, including coat, hooves, and diet. Then students will learn tack and horse behavior. all this culminates into riding a horse and learning to communicate together. Students will progress from simple to more advanced riding techniques.
How It Works	How it works? Let's take it apart look at it's pieces and put it back together. Learn mechanics and machines and learn while doing. Using the internet as a research tool students will learn to troubleshoot and problems solve by learning how things work. Students will keep a journal of their projects and fixes throughout the year.
Intermediate Sewing	Intermediate sewing students will work through a series of projects to build fundamental skills, confidence, and a love of sewing. The majority of the class projects will be completed on a sewing machine with partial assistance when needed. Some examples of potential projects are: library or market tote, pillow case, sleep mask, bedside stuff keeper, notebook and pencil holder, bean bag stuffies, bowl cozies, apron, quilt block hot pads and many more options I am exploring!
Journalism	Throughout modern history, people have depended on the mass media to spread the word about events and people of interest to the general public. This course will introduce students to the exciting world of print, radio, online and broadcast media through a variety of projects and in class discussions. Law, ethics, and the history of journalism will be covered as well as lessons in critical thinking and examination of media to understand the differences between Journalism and Propaganda. The students will develop skills in the complementary disciplines of reporting, writing, editing, photography, advertising, design, management and teamwork. In addition, students will have the opportunity to use computer-aided publishing tools and other hands-on production tools as well as modern photo techniques while they work on projects for the class. Some out of class time may be required for Field Trips or interviewing/collecting information for their projects.

Language Arts 100	English Language Arts 1 focuses on developing reading, writing, spelling, speaking, and listening skills. In this course, students begin to understand that spoken and written language can be broken into phonemes. They use rhyming, blending, and segmenting to develop the foundation needed to become an emergent reader. Students read prose, poetry, and informational texts for comprehension. They learn to interpret the ways in which stories and poems appeal to the senses and to identify the main topic and key ideas within texts. Students increase their vocabulary by learning to use morphemic and contextual analysis to determine the meaning of unknown words. Students learn to spell new words using various spelling rules. In English Language Arts 1, students hone their writing skills by practicing grammar rules for noun usage, personal possessive and indefinite pronouns, verb tenses, capitalization, commas, and end punctuation. In doing so, they learn to produce and expand sentences and to write opinion pieces, informational pieces, and narratives. This year, students begin learning how to research information and how to use their research to answer questions. They identify and use various parts of a book, such as headings and the table of contents. They also use digital tools to publish their writing.
Language Arts 200	English Language Arts 2 central concepts are reading, writing, spelling, speaking, and listening. This year, students begin to transition from learning to read to reading to learn. In this course, students continue to develop their phonemic awareness by learning to recognize word families, word origins, and irregularly spelled words. They also begin to use linking words to connect opinions and reasons and time-order words to signal the order of events. While reading, students work to distinguish fact from opinion, decipher an author's reason, and identify the main topic of a multi-paragraph text. Students sample multiple genres of literature, including fiction, nonfiction, poetry, folktales, and fables, while exploring story elements such as plot, setting, characterization, and the author's point of view. They also learn to distinguish between the main idea and the theme of a story. Students develop their writing skills by composing narrative, persuasive, and informative essays, as well as creative writing pieces. Additionally, they practice their research skills by finding facts in multiple sources and using them to produce a science report. Students use a dictionary to reinforce phonetic punctuation and spelling and to identify words with multiple meanings.
Language Arts 300	English Language Arts 3 focuses on expanding students' reading, writing, spelling, speaking, and listening skills. In this course, students read more complex texts and write to express themselves with greater sophistication. They practice reading at a natural pace while using intonation and expression appropriately. While reading, they interpret texts in more complex ways, by identifying cause and effect, determining tone and mood, and distinguishing shades of meaning in figurative language. This course introduces students to new genres, including opinion pieces, biographies, and blogs, while they continue to work with narratives, fiction, and informational texts. An emphasis is placed on grammar, punctuation, and spelling as students explore the functions of nouns, pronouns, verbs, adjectives, and adverbs; categorize nouns; explain the differences between various verb tenses; write simple, complex, and compound sentences; and use capitalization, commas, and quotation marks correctly. They learn the spelling of words with various prefixes and suffixes; regular and irregular nouns, verbs, and adjectives; and contractions, compound words, homophones, and words with various vowel sounds. Students develop their speaking and listening skills by planning, writing, and delivering an oral presentation and by creating visual aids to accompany the presentation. English Language Arts 3 also introduces students to new forms of writing, such as scripts, autobiographies, and outlines. They practice drafting and revising their writing through the development of journal entries, short stories, opinion pieces, and narratives. Students expand their research skills by learning to take notes while researching and to organize their notes into categories.
Language Arts 400	Students in English Language Arts 4 focuses on expanding their reading, writing, spelling, speaking, and listening skills, with a heavy emphasis on solidifying their writing skills. They use narrative, descriptive, opinion, persuasive, and informative pieces to learn to state ideas, facts, and opinions clearly while correctly using introduction, body, and conclusion paragraphs. Students create a plan for writing, revise and edit their work, and improve their writing using feedback from an adult. Through their writing, they continue to master the conventions of English grammar, including quotations, relative pronouns, progressive verb tenses, modal auxiliaries, prepositional phrases, antecedents, coordinating conjunctions, compound sentences, capitalization, and punctuation, while avoiding sentence fragments and run-on sentences. They learn to spell words with a wide variety of prefixes and suffixes in addition to homophones, possessives, compound words, and words with silent letters. While reading, students identify, describe, and analyze story elements and compare and contrast these elements in stories, myths, and literature from various cultures. Students further develop their research skills by conducting short research projects, taking notes during research, and creating bibliographies. They develop more concrete speaking skills by creating and delivering presentations on various topics.
Language Arts 500	In English Language Arts 5, students solidify their foundational skills in reading, writing, spelling, speaking, and listening. Students read a variety of texts this year, including fiction, nonfiction, and informational texts. They identify the author's purpose in multiple forms of writing, such as descriptive, expository, technical, persuasive, and narrative passages. Through these texts, they learn to make inferences and analyze multiple accounts of the same event. They also identify, interpret, and compare similes, metaphors, and idioms used in writing and learn to draw a plot diagram and to identify common themes in literature. This year, students write a five-paragraph essay and an effective thesis statement. They follow the writing process to develop essays, create outlines to organize their ideas, and revise and improve their original draft. Students also write a persuasive letter, a speech, and a script. This course teaches and reinforces spelling rules, such as l before e, while also focusing on the spelling of words ending in a silent e, commonly misspelled words, and words with multiple syllables. Students sharpen their research skills by learning to use notecards for research, gathering information about the same topic from multiple sources, and understanding plagiarism and the importance of writing in their own words. They also practice citing sources by creating a bibliography. Students enhance their presentation skills by reporting on a text or topic, telling a story, retelling an experience, or presenting an opinion in an organized way while using facts and details to support the main idea.
Language Arts K	English Language Arts K encompasses reading, writing, speaking, spelling, and listening skills for students who are emerging learners. This course places a heavy emphasis on the alphabet, as students learn letter names and both uppercase and lowercase letters. Students also learn letter sounds and how to articulate and blend those sounds. English Language Arts K focuses on building reading skills through the use of high-frequency sight words—common prepositions, nouns, verbs, and adjectives. Through grade-level appropriate readings, students explore story elements and the ways in which pictures relate to text. They also learn to summarize a text and to compare and contrast characters, events, and ideas within texts. This course teaches foundational grammar and writing skills, including proper capitalization, spacing between words, and sentence punctuation. Students learn to print words and write complete sentences. Finally, interactive activities throughout the academic year help students develop their speaking and listening skills as well.
Look What I Can Do	Try something new, this is an important trait of a lifelong learner. Students will research, plan, prepare, and add a new skill set to their tool box of life. Students will journal the process of what it takes to tackle something new. Kids are wired for this, "Mom and Dad, Look what I can do!"
Martial Arts I	This class teaches practical self defense. It draws on several different martial arts disciplines and is taught in a safe and supervised environment. Students learn when and where to use their new self defense skills. Skills include punches, kicks, blocks, tumbles, rolls and throws. Each class is scaled to the abilities level of the students. Progress is tested as students earn stripes and belts moving forward.
Math 100	In Mathematics 1, students begin to learn mathematics in a more formal way. They focus on rote counting to 120 and practice reading and writing these numbers. In addition to strengthening their addition and subtraction skills, they compare two-digit numbers using place values and the comparison symbols for greater than, less than, and equal to. Students measure lengths and use measurements to compare the lengths of multiple objects using nonstandard measuring and units. They strengthen their geometry skills by drawing two-dimensional and three-dimensional shapes, and they explore fractions by dividing those shapes into halves and quarters. Students also organize, represent, and interpret data in pictures, tables, and charts. Additionally, they tell and write times in hours and half-hours.
Math 200	In Mathematics 2, students begin to develop the skills to solve problems mentally and to explain how they solved a problem aloud or through writing. They count to 1,000 and identify even and odd numbers. Students discover multiple strategies for adding and subtracting numbers and determine which strategies work best for various problem types. They work with number lines and use them to represent whole numbers and their sums and differences. In this course, students expand their knowledge of place value to include thousands and use this concept to compare numbers. They use standard units of measurement to express the length of objects in inches, feet, centimeters, and meters. Mathematics 2 introduces digital and analog time and presents students with word problems involving money. In addition to learning monetary values, students also learn to use the dollar and cent symbols appropriately. Students also deepen their understanding of geometric shapes while exploring fractions by dividing shapes into halves, thirds, and fourths. They are introduced to new ways of representing data, including line plots, picture graphs, and bar graphs.
Math 300	Students in Mathematics 3 focus on multiplication and division, as this course aims to build strong foundational skills in these areas. Students explore the relationship between multiplication and division and practice using the order of operations to solve problems, including one- and two-step word problems. In addition to using place value to perform multidigit arithmetic, students round numbers to the nearest ten or hundred. They refine their mathematics skills in relation to money by making change using a combination of bills and coins. Mathematics 3 presents area and perimeter to students as they explore linear and area measurements. They also work with fractions as numbers in this course, representing them on number lines, generating equivalent fractions, and comparing fractions with the same numerator and denominator. Finally, students explore the ways in which various types of data can be displayed.
Math 400	In Mathematics 4, students refine their skills in the areas of place value, measurement, geometry, fractions, and decimals. They use the order of operations to solve problems with whole numbers up to 1 million, and they explore factors and multiples ranging from 1 to 100. Students use equations, arrays, and area models to explain multiplication calculations. They compare multidigit whole numbers, fractions, and decimals using the symbols for greater than, less than, and equal to. Students practice converting measurements, such as feet to inches, and they use their understanding of size to determine whether measurements are reasonable answers to problems. Mathematics 4 introduces students to the protractor, which they use to measure angles in whole number degrees. Students learn to identify right triangles, and they sketch angles, lines, segments, and rays. Students look closely at fractions and decimals in this course by writing equivalent fractions, ordering fractions from least to greatest, comparing fractions with different numerators and denominators, and writing fractions as decimals and vice versa.
Math 500	Mathematics 5 focuses on developing students' math skills and problem-solving strategies. Problems and activities are designed to get students reasoning abstractly and quantitatively, constructing arguments, and modeling with mathematics. Students add, subtract, and multiply fractions, divide fractions by whole numbers, and divide whole numbers by fractions. They perform multiple operations with decimals in addition to comparing, ordering, and rounding them. They use exponents to denote powers of 10. Students are introduced to volume and how to calculate it and classify two-dimensional shapes into categories. They also graph data on a plot line and the coordinate plane, using graphs to solve real-world and mathematical problems.
Math K	In Mathematics K, students explore the world of mathematics all around them. Students begin to develop foundational mathematics skills such as number identification and recognition and rote counting to 100 by memory. They learn the difference between more than and less than and explore the ways in which numbers are broken down into various components. Students compare measurements, such as longer and shorter and heavier and lighter. They begin to develop problem-solving skills as they engage with simple addition and subtraction equations and word problems. Finally, students are introduced to basic geometry and learn the names and basic attributes of shapes.

Music	Students will practice learning a new musical instrument. Students may work with an instructor or self teach for this class. Students will select appropriate materials to progress from learning notes, to scales, to songs. Students will keep a journal of their progress.
Music 100	In Music 1, students are introduced to music fundamentals such as solfège, rhythms, dynamics, meter, instrument families, and dance forms. Each topic is presented through the use of music and movement activities that include reading, singing, dancing, and writing. Students improvise original rhythmic compositions. They sing using various forms of musical expression and dance. They learn and practice proper stage and performance etiquette techniques, and they explore the ways in which music and dance work together to create specific dance forms. Students also learn about American composers whose music has influenced the American society.
Music 200	In Music 2, students explore musical expression. They investigate how musical concepts such as tempo are used to achieve the musician's expressive intent. Students identify the role and responsibility of a music composer and seek out the connections between music, other arts, daily life, and history. Throughout the course, they perform songs with movements and improvise rhythmic patterns and melodies. They create and record musical ideas through a recording device or on paper. Students learn to identify how personal interests and experiences influence music selection and instrument choice. Through these studies, they evaluate music from the Irish, African, and Japanese cultures. Additionally, they work with standard and iconic notation. Finally, students use the musical skills learned in this course to evaluate recorded music and make suggestions for improvement.
Music K	In Music K, students are introduced to the expression of ideas and creativity in music through active involvement. Students respond, connect, perform, and create music to enhance gross and fine motor skills, vocal development, self-expression, personal connection, originality, visual recognition, and audition while developing music terminology.
Music Lessons	In depth instruction of an instrument. Student will be able to read music notation, demonstrate musicality, and understand music theory concepts. Student will be expected to practice outside of the scheduled lesson time. Student will be expected to provide their own instrument, music literature, and all other necessary materials.
Nature & Survival I	Break through the wall of green, you too can become a naturalist! Most of us are really tourists in our own backyards. This class will guide students how to learn and understand the landscape around them through observation, journaling, and nature based play.
Passion Project	Students are assisted by a mentor to pursue something they have always wanted to do. No challenge is to great, no goal too lofty. Students will step by step form a plan on how they will achieve their goal then start taking the actions steps to actually get there. The students path and progress will be captured in a journal and reflection format.
PE Sports	Keep that body in shape. Students will plan and follow through on their physical health goals for the year. Students will learn the basic vocabulary and concepts of how and why routine workouts are important to overall health. Students might learn a new sport or skill as part of their PE class for the year. Progress and achievements will be recorded in a learning journal.
Performing Arts	Students will participate in a specific performance art. Students might find a class and/or learn and practice at home. Students will learn about the performance arts in general and apply that knowledge to the specific activity they have chosen. Students might attend a play while the practice their role in a community performance. Students have the opportunity to participate in the school talent show at the end of the year. Progress and learning will be recorded in a learning journal.
Photography and Film	Students will learn how to record, edit, and produce digital photos and videos. Student will use a variety of digital media to create a piece to share. Students will use how operate digital cameras, import images and video into an editing software, and produce a final project. Students will document their learning and share their final projects in a learning journal.
Physical Education 100	Physical Education 1 offers students a complete physical education experience where students are encouraged to live healthy lifestyles through good food choices and daily activity. The course begins by introducing students to the requirements for completion, which include 36 hours of organized, supervised physical activity. Students document all activity within their PE Logs. From there, students learn about a number of different elements of a healthy lifestyle, including safety, working with others, responsibility, stretching, healthy versus unhealthy foods, and warming-up and cooling-down. Regardless of the activity students are asked to do on a given day, they are expected to get up and move for a certain amount of time within each lesson. This expectation encourages students to be active every day by creating a routine. Students can be active by performing different exercises, engaging in different activities, or by using items from their grade-appropriate physical education kits, which are available to purchase. The kit is designed to work in conjunction with the course content and contains age-appropriate exercise and activity items.
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Physical Education 200	Physical Education 2 provides students with a comprehensive physical education course. Within this course, students are encouraged to discover the ways to live a healthy lifestyle, including better food choices and consistent activity. Students begin the course by learning about the required 36 hours of organized, supervised physical activity. They also learn to document their activity within a PE Log. The course then moves into different aspects of healthy living, discussing components of health and safety, nutrition, working with others, following directions, and a number of new and different exercises, activities, and techniques. Regardless of the activity the student is asked to do within a given day, they are encouraged to get up and move for a certain amount of time within each lesson. This expectation helps them to create a routine-like schedule. Students can be active by performing different exercises, engaging in different activities, or by using items from their grade-appropriate physical education kits, which are available to purchase. This kit, which is designed to work in conjunction with the course content, contains age-appropriate exercise and activity items. Adaptive physical education activities are available for this course.
Project Based Learning	In this elective, students have the time to tackle larger projects for themselves, our center, and our community. An integrative learning approach incorporates project management skills, organization, and communication skills.
Robotics I	Students will learn about gears, levers, motors and simple machines using the new Lego WeDo kits. Each week the students will work through a set of Lego instructions with the Instructor and then program them to come alive. Each of the models are designed to inspire and teach a new concept in robotics. This entry level class is a fun and hands on way to learn about robotics, programming.
Science 100	Science 1 extends students' exploration of the natural world. Along the way, they practice making predictions and observations, experimenting, and using scientific tools and problem-solving skills. Students investigate ecosystems and habitats, identifying the five basic needs of all living things, the importance of natural resources, and the interactions of human beings and the environment. They examine the agricultural system and its products and by-products. This course also introduces the water cycle and the Earth as a body in space. Students observe matter and describe its properties and states, and they discover the properties of light and sound. Study of force and motion enable them to define the terms and explain the effect of different amounts of force and also how moving objects stop. Finally, students develop their ability to distinguish fact from opinion and recognize the relation of cause and effect.
Science 200	Science 2 encourages students to make sense of the world around them by observing and experimenting. Through focused readings and hands-on activities, students explore matter, energy, and physical and chemical changes. They study interdependence in ecosystems, such as the role of bees in pollination and the use and conservation of natural resources. They look beyond food production to the broader purposes of agriculture and recognize the importance of local farms to human society. Students examine the water cycle—including evaporation and condensation—and the life cycles of such living things as frogs, butterflies, and plants. They research topics and formulate questions, make predictions, and then use scientific tools to observe and measure their experiments. By distinguishing fact from opinion and recognizing patterns and cause and effect, students develop the ability to make inferences and communicate their findings.
Science 300	Science 3 guides students on an exploration of the natural world, its animals, its plants, and its terrain. They learn how clouds form, what causes the cycles of seasons and of day and night on Earth, and that light and sound are actually energy. Students examine the Earth's eight major biomes and identify how adaptations help plants and animals to survive varying conditions. They become junior meteorologists, able to explain weather and climate and to use weather instruments and knowledge of patterns to observe and predict the weather. Students recognize the information fossils can provide about the Earth's past and use geologic time scales to identify the eras when fossilized organisms lived. They explain how chemical reactions can change the properties of matter, and they investigate energy, magnetism, and electricity. Finally, students research topics and formulate questions, make predictions and observations, experiment and measure using scientific tools, and draw inferences and identify patterns based on their scientific inquiries.
Science 400	Science 4 lays a foundation for future excellence in the STEM fields by introducing technology and engineering concepts, such as simple and complex machines and the steps of the engineering design process. This course encourages students to become innovative problem-solvers equipped with the skills and knowledge necessary to address twenty-first century issues. Students explore the technical and sometimes surprising facts behind the things they see and experience every day. They expand their knowledge and understanding of topics in the areas of physics, chemistry, Earth science, ecology, biology, and space science. Students investigate genetics and the physical characteristics of living things, ecosystems and extinction, agriculture and sustainable resources, and pollution and recycling. They get to know the Earth's landforms and the types of rocks and soil, and extend their learning beyond the Earth to the solar system and the Milky Way. Finally, students encounter important concepts in physics, such as the types and properties of waves, and in chemistry, such as atoms, molecules, and the conservation of mass.
Science 500	Science 5 puts the emphasis on doing science. Students build their knowledge by crafting models, conducting experiments, creating terrariums, and making electromagnets. They learn about plant and animal cells and their functions, photosynthesis, and the roles of producers, consumers, and decomposers in an ecosystem. Students explore the global water cycle, the negative impacts of weather, and the relationship between weather and climate. They deepen their understanding of their home planet by investigating landforms, volcanic activity, the layers of the Earth's atmosphere and geosphere, the tilt of the Earth's axis, the impacts of its revolution around the Sun, and the Sun's role as source of energy for life on Earth. Students are introduced to elements as the basic substances of all matter and the relationship between matter and particles; they also encounter such core concepts of physics as energy transformation, gravitation, and Newton's first and second laws of motion. They design simple and parallel circuits and use the engineering design process to generate solutions to real-world problems. Finally, they conduct research, formulate questions, make predictions and observations, conduct fair tests using the scientific method, record their findings, and draw conclusions for future investigation.

Science K	Science K introduces emerging learners to the knowledge and skills that will help them discover and understand the natural world around them. In this course, students learn to formulate questions, to predict, and to investigate. They use basic scientific tools, such as a magnifying glass, a ruler, and a thermometer, to make observations and draw on those observations to communicate their findings. They learn to use their five senses as observational tools as well. They deploy their observational skills to describe animals and plants, their basic needs for survival, and their environments. Students discover the effect of sunlight on Earth's surfaces and the difference between sun and shade. Students explore weather types, weather patterns, and seasonal changes. They also examine the characteristics of force, including the difference between a push and a pull.
Sewing Apparel	Students will venture beyond the simplest of clothing patterns. They will use patterns to make more complex skirts, tops, and dresses. Fabric types, selection, and techniques for working with various fabrics will be covered. Students will increase their mastery of the sewing machine and learn to adjust patterns to create a personalized fit. Permission of instructor is required to take this class.
Social Studies 100	Social Studies 1 leads students beyond their local community to consider their place in their state, the nation, and the world. They explore the function and characteristics of government in the United States, including the role of rules and laws and the rights and responsibilities of citizens. Students also learn how to ask questions and gather information to understand history. The course focuses on developing students' knowledge of the interplay between the physical world and human societies, as they learn basic geography skills, such as map reading, and examine the impact of the environment on how and where people live and how regional variations drive trade in both goods and services. Finally, students build their understanding of good citizenship by identifying ways to contribute to the community and avoid conflict and by interacting respectfully with others.
Social Studies 200	Social Studies 2 empowers students to become productive citizens by developing their knowledge and skills in civics, history, geography, and economics. They deepen their understanding of the U.S. government by explaining the role of the three branches of government and of the U.S. Constitution. Students extend their knowledge of U.S. history to recognize the impact of important figures and movements of the past, and they begin to think like historians by identifying reliable sources, crafting compelling questions, distinguishing fact and opinion, and using timelines to structure series of events. The course highlights the role of international relations, including both alliances and international trade, as well as the importance of geography and regional variations in resources and production. Finally, students learn core concepts of economics, including supply and demand, scarcity, and cost and benefits, as well as the functions of banks, and relate these concepts to individuals and communities.
Social Studies 300	Social Studies 3 focuses on the United States, including its government and its laws. Students are encouraged to think about what it means to be productive, responsible citizens of both the nation and their own local communities. To support their learning about U.S. history and differing cultures and perspectives, students develop and research compelling questions on historical topics, work with credible sources, and distinguish between fact and opinion. Additionally, they learn to evaluate the validity of sources, especially websites. Students develop presentation skills that include constructing arguments to support their opinions and using visual aids to add interest to oral reports. They also expand their map-reading skills and learn the fundamentals of financial literacy. In addition to studying the United States, students examine the geography, culture, history, government, and economy of three other world communities: Canada, Mexico, and India.
Social Studies 400	Social Studies 4 introduces students to critical analysis, as they develop more detailed knowledge of U.S. and world history and the influence of individual perspectives on documents and events. Students assess and use a wide variety of primary and secondary sources to research compelling questions and present interpretations and arguments in both written and oral form, supporting their positions with details drawn from those reliable sources. They learn the rights and responsibilities of citizens and how people and groups can work together to accomplish common goals. Students also explore how regional differences in physical environment and culture affect how people live and work. This course fosters a command of the concepts and tools of geography, such as latitude, longitude, maps of various kinds, and scales. Students also gain an understanding of core aspects of economics, including resources, production, consumption, and international trade.
Social Studies 500	Social Studies 5 puts American history front and center, as students learn about the Native American civilizations of the Americas, the discovery of the New World by European explorers, the founding of the United States, westward expansion, and the coming of the Industrial Revolution. Students leverage research skills to analyze historical events and documents, and they present their findings using arguments based on reliable sources with supporting facts. They refine their ability to distinguish fact from opinion in the context of historical investigation. Students also broaden their understanding of government by recognizing how the system of checks and balances works at both national and state levels, and they identify and interpret important songs and symbols of the United States. Civic responsibility is woven throughout the curriculum, and students recognize the value of public service and the traits of good leaders. Social Studies 5 also explores the themes, tools, and techniques of geography. Students learn how human interaction with the environment has caused change, both beneficial and detrimental, in the past and in the present. Finally, they learn how the U.S. economy functions, including the role of government and multinational organizations in domestic and international trade.
Social Studies K	Social Studies K introduces emerging learners to the knowledge and skills that help them to become active and valued participants in their community. Students learn the importance of rules and regulations in guiding community behavior and the role of government and other institutions. They explore the concept of good citizenship and values such as respect, democracy, cooperation, and equality in the context of the family and the local community. This course lays the foundation for understanding the past by teaching the importance of a sequence of events, introducing historical figures, and developing students' skill in distinguishing fact and opinion. Finally, students learn about the world around them, including how geography influences society, how maps represent places, and how communities rely on trade in goods and services.
Spelling 300	In the third-grade spelling course, students will delve into relevant spelling rules and word families throughout thirty weeks of instruction. Students will not only practice phonics skills including syllabication and sounding out multisyllabic words, but also incorporation of word parts such as prefixes and suffixes. These lessons not only meet instructional needs for spelling, but also reinforce language arts skills including application of the writing process and reading comprehension.
Spelling 400	In the fourth-grade spelling course, students will delve into relevant spelling rules and word families throughout thirty weeks of instruction. Students will not only practice phonics skills including vowel combinations and sounding out multisyllabic words, but also incorporation of word parts such as prefixes and suffixes. Units include review of base and root words, plural nouns, and homophones. These lessons not only meet instructional needs for spelling, but also reinforce language arts skills including application of the writing process and reading comprehension.
Spelling 500	In the fifth-grade spelling course, students will delve into relevant spelling rules and word families throughout thirty weeks of instruction. Students will practice phonics skills including phonograms, compound words, and vowel-consonant-vowel patterns. Course units also include significant incorporation of word parts such as prefixes and suffixes. Units include review of base and root words, silent words, and homophones. These lessons not only meet instructional needs for spelling, but also reinforce language arts skills including application of the writing process and reading comprehension. Each unit represents a specific spelling rule or word family.
Sports Class	Get moving with Sports class! Come ice skating, tubing, and have fun gym at the L'Anse Township hall. Enrolled students will also receive swim passes to work on being competent swimmers.
Storytime	The art of the story is one of the worlds greatest teachers. Students will engage in story to learn about the world around. Students will read, write, and listen to stories from around the world. The stories and teaching will be recorded in a student learning journal.
Survival 101	Survival 101 is an introductory course that will teach the basics of survival in various wilderness scenarios. The class will use a combination of classroom lectures, hands on skill development, and field trips. Topics will include shelter building, basic first aid, navigation, signaling for help, predicting inclement weather based on nature signals, water purification and safety, basic wild edibles, fire starting, and packing/preparation for excursions.
Survival Skills	Wilderness survival, how to survive when things go wrong. Students will practice on their own to be prepared if an accident or unfortunate situation arises. This is a great way to learn problem solving and preparedness. Students will learn to prioritize survival tasks as they learn various way to obtain shelter, food, water, fire, and signal for help. The first priority is always preparedness and avoidance of dangerous situations where survival skill become necessary! Students learning and skills will be recorded in a learning journal.
Swimming	Non swimmers- Swimming is an essential life skill, especially here in the Keweenaw. Games and play are used to introduce swimming skills, comfort in the water, and endurance. Let's get the floaties and life jackets off, faces in the water, floating, doggie paddle, freestyle, and jumping off the side, with goal to get kids comfortable in the water and build the strength to swim a length of the pool using a variety of strokes. Advanced Swimming- Students should be able to swim 2 laps of the pool without stopping. Building on students current swimming ability, new strokes are introduced, games are played to build endurance, and basic lifesaving skills are taught. Freestyle, breaststroke, backstroke, butterfly, dives from the side and the diving board, retrieving dive rings from the deep end, and games to build endurance is a typical day in class. By the end of class students should be proficient in at least 6 strokes, diving, basic lifesaving, and will be able to swim 6 laps of the pool without stopping. Intermediate Swimming- Swimmers that do not need floaties or life jackets, but cannot swim 2 laps of the pool without stopping or are swimming but always close to the wall for comfort. Building on students current swimming ability, new strokes are introduced, games are played to build endurance, and basic lifesaving skills are taught. Freestyle, breaststroke, backstroke, dives from the side, retrieving dive rings from the lap pool, and games to build endurance is a typical day in class. By the end of class students should be proficient in at least 4 strokes, diving, basic lifesaving, and will be able to swim 2 laps of the pool without stopping.
Tinker Lab	Let your child's inner STEAM spirit soar high with this class. Materials and challenges will be presented for open ended construction and hands-on experimentation. Geared towards ages 10 and under, this class will get your kids thinking outside the box as they tinker away on projects emphasizing designing, building, concocting, and discovering
Tinker Lab	LANSE: Let your child's inner STEAM spirit soar high with this class. Materials and challenges will be presented for open ended construction and hands-on experimentation. Geared towards ages 10 and under, this class will get your kids thinking outside the box as they tinker away on projects emphasizing designing, building, concocting, and discovering
What's Up In My Community?	Students will engage in learning activities and events such as theatre, museums, adventure activities, and local events. Our communities have so much to offer our students, so they will plan and engage in learning activities that are offered throughout the school year. Students will keep a learning journal of activities and what the learned in their chosen activities.
What's Up In My Community?	HANCOCK: Sign up for this elective to apply funding toward learning activities and events such as theatre tickets, museum passes, adventure activities, and local events that charge for admission (Quincy Mine Tours).

Winterize Me	Winter is half the year in the Copper Country. Students will learn and participate in winter sports. Students may learn snowshoeing, downhill skiing, cross country skiing, ice skating, fat biking, or winter camping. Students will learn about the equipment needed, safety requirements, and safe locations to practice their winter sports. Students will document their progression in their winter sports.
Winterize Me	HANCOCK: Sign up for this elective to apply funding toward winter sports; main activity is membership for skiing and snowboarding to Mount Ripley