

Merritt Academy

Course Descriptions

2022-2023

CORE CLASSES

CP (College Prep)/Honors Courses

CP/Honors Courses cover the same material as regular courses but at an accelerated pace and with a more extensive examination of the curriculum. They also carry a weighted GPA and are based on a 4.5 grade scale.

AP Courses are available to take online.

High School Classes:

SCIENCE

Biology/CP Honors Biology Duration: 2 Semesters

A lab oriented science course that investigates the diversity of life-forms in depth while revealing their relationships and fundamental unity in function. This course will provide students, through a variety of learning experiences, with an overview of biological processes, theories and concepts. Biology is the study of living things, including animal, plant, microorganisms and fungi, and their interactions with the environment. Emphasis is placed on the development of critical thinking through the use of the scientific method and laboratory activities. In addition, this course will provide students with the skills and information necessary to form opinions and make decisions involving scientific issues. As an integral part of this course, students will learn about their responsibility towards the environment.

Physics/CP Honors Physics Duration: 2 Semesters

Physics is a course designed to allow students to explore the basic concepts of physics. In physics we study motion, forces, matter, and energy. Students will be encouraged to explore the relationship between science and everyday life. *Course Prerequisite:*

Successful completion of Algebra 1

Chemistry/ CP Honors Chemistry Duration: 2 Semesters

The General Chemistry class covers the Michigan core curriculum. The class begins with matter, states of matter, chemical and physical properties. Through the class the students understand the elements, periodic table and elemental trends based on periodic law. The class culminates in balancing chemical equations, stoichiometry, the mole, and acid/base reactions.

Applied Science/CP Honors Applied Science Duration: 2 Semesters

Applies Science and Research is a course in which students will view themselves as scientists in the process of learning. Students will plan and carry out investigations in the fields of life, earth and physical science. They will then communicate their findings using a variety of methods. Students will raise questions, propose explanations, make observations, analyze data

and develop solutions. Students will then critique their science practices and limitations. *Course Prerequisite:* Successful completion of 3 years of high school level science and 3 years of high school level math. General knowledge of research practices would be helpful.

MATHEMATICS

Algebra 1/CP Honors Algebra 1 Duration: 2 Semesters

Main concepts: Writing and solving linear equations and inequalities. Properties of simplifying expressions with exponents and radicals. Basic Statistics and data interpreting. Introduction and application to factoring and quadratic functions, as well as polynomials. Applying problem solving skills.

Algebra 2/ CP Honors Algebra 2 Duration: 2 Semesters

Quadratic functions and their application to the real world, including complex numbers. Solving equations of all types; linear, quadratic, exponential, radical, rational, higher degree polynomials. Simplifying of rational functions and identifying restricted values. Simplifying trigonometric equations and applying them in geometric settings. Basic probability and counting principals.

Geometry/ CP Honors Geometry Duration: 2 Semesters

Main Concepts that are covered are: experimenting with transformations in the coordinate plane; understanding congruence (rigid motion) and similarity with a high enough degree to prove geometric theorems (postulates, corollaries); solving ratios using properties of triangles; using coordinate geometry by relating graphs and equations; extending geometry ideas to three dimensions; solving algebraic equations using geometry concepts; and understanding properties of all 2D shapes.

Statistics and Probability/CP Honors Statistics Duration 1 Semester

Main concepts that are covered are: Concepts that discuss Descriptive statistics: summarizing, representing, and interpreting data on a single count of measurement variable and two variable, understanding, evaluating, and making inferences about population; justify conclusions from sample surveys, experiments, and observational studies; Understanding independence and conditional probability and use them to interpret data; and calculate expected values and interpret real life situations.

Prerequisite: Algebra 2

Pre-calculus/CP Honors Pre-Calculus Duration: 1 Semester

Main concepts: The nature of graphs: continuity, end behavior, critical points, and variation; Trigonometric functions: angles, degrees, unit circle; graphs of trigonometric functions; Trigonometric identities and equations. *Prerequisite: Algebra 2.*

ENGLISH

English 9/CP Honors English 9 Duration: 2 Semesters

Students will enhance their knowledge of literary terms and texts. In the ninth grade

segment of English, students will read several short stories, as well as "Night," by Elie Wiesel, "To Kill a Mockingbird," by Harper Lee, and the Shakespearean classic, "Romeo and Juliet." Students learn about authors and literary periods, while evaluating the text. In this class, students will also work on grammar, vocabulary, and writing skills. Students will also write a compare and contrast paper to conclude the class.

English 10/ CP Honors English 10 Duration: 2 Semesters

Tenth grade English will address taking a stance and thinking critically through reading and interpreting classic and contemporary American Literature. Students are expected to read and respond to a variety of literature, independently, in group discussion and in writing. All facets of language arts - listening, speaking, reading, writing will be covered. The study of language in use – grammar, mechanics, sentence structure, and usage will be incorporated in this course as well. SAT preparation will also be included to aid in long-term retention of the skills assessed on the test.

English Lit 11/CP Honors English Lit 11 Duration: 2 Semesters

Students will apply knowledge of literary terms and concepts to evaluate both fiction and non-fiction texts. SAT preparation will be addressed throughout the class by reviewing grammar, academic vocabulary, writing practices, and text analysis. Texts to be studied include: "Beowulf," "Canterbury Tales," "Sir Gawain and the Green Knight," "Hamlet," "1984," and "Frankenstein." Students will also conclude the class with writing a research paper.

English 12/ CP Honors English 12 Duration: 2 Semesters

Twelfth grade English will address taking a stance and thinking critically through reading and interpreting classic and contemporary World Literature and African American Literature. Students are expected to read and respond to a variety of literature, independently, in group discussion and in writing. All facets of language arts - listening, speaking, reading, writing will be covered. The study of language in use – grammar, mechanics, sentence structure, and usage will be incorporated in this course as well. Coursework will aim to prepare students for the expectations of a post-secondary education program.

SOCIAL STUDIES/SOCIAL SCIENCE

U.S. History Duration: 2 Semesters

US history is a two semester course that is designed to help students take a conceptual look at the changes that occurred in America's culture, politics, environment and economy from the Reconstruction period to the present. In this course, students will study and discuss the major events of US history within their geographic contexts. The course's intent is to help students better understand the themes of US history which have shaped and continue to shape our lives here in America. The concepts explored in this course will continue to prepare and empower students to make choices as responsible participants in American society.

World History/Geography/CP Honors World History Geography: 2 Semesters:

World history is a two-semester course that is designed to help students understand themselves as global inhabitants. Students will study and discuss the major events of world history within their geographic context. This course takes a global and comparative approach to studying the world and its past to develop greater

understanding of the development of worldwide events, processes, and interactions among the world's people, cultures, societies, and environment.

Civics, Econ & Government/ CP Honors Civics, Econ & Government Duration: 1 Semester
Civics is a course in which students study government and economics. American Government offers students the opportunity to learn about the three branches of government as well as their role and responsibility as citizens. The goals of this class are that students recognize the strengths and weaknesses of democratic form of government and develop a realization of the necessity of individual participation to ensure a successfully functioning government. The purpose of Economics is to aid students in understanding the basic principles of our economic system and that of other countries. Further aim is to enable students to gain knowledge of economic principles for use in everyday lives. Specific units are production, supply and demand, stock market money, credit, banking, personal income, the government and its economy, and major economic problems in the United States. This class is college preparatory, required by the State of Michigan for graduation. The fast pace can be a challenge for some students, so seeking help when needed is essential.

Global Studies Duration: 2 Semesters

Global Studies is a study of world regions, cultures and global issues that will help students develop research, writing and analytical skills. The purpose of Global Studies is to give students an understanding and appreciation of major geographic and cultural areas of the world and the issues and challenges that unite and divide them. The essential social studies concepts and skills in this course provide a foundation for continuing study in social studies. The areas of study will include North America, Latin America, the Middle East, Africa and Asia. In each area, an emphasis will be placed upon regional characteristics, challenges and cultural heritage. Students will be expected to understand global interdependence as it relates to culture, resource management, conflict and human rights. Moreover, students will explore the relationship between diverse cultures and the world in which they live. Students will read, write, discuss, analyze and take positions on multiple topics in order to frame and defend arguments. Students will use a variety of print and non-print sources to analyze and suggest solutions to real-world problems and to analyze environmental and societal issues. Students will develop critical thinking skills and perspectives to better understand the world around them.

HIGH SCHOOL ELECTIVE CLASSES

Online Courses: All online elective or credit recovery courses are available through Clintondale Virtual and Michigan Virtual

Academic Based:

Anatomy and Physiology Duration: 1 Semester

The course is for those interested in science-related fields. Anatomy is a discussion and laboratory based study of the human body. The study will range from molecules, cells, body systems, and processes. Dissection of a cow heart and fetal pig will compliment course work as well as be the majority of the assessment for the final lab practicum. This course is designed for college preparation, especially for biology and health career majors.

Forensics Duration: 1 Semester

The application of science to criminal activity for the purpose of discovery. This course is about how, why, and where to examine evidence in order to get the most pertinent information from a crime scene. The main part of the course details many of the more popular topics in forensic chemistry: **fingerprints, blood and DNA typing, blood spatter, handwriting and Document analysis**. Students will learn and practice how each type of evidence is discovered and processed, using the scientific process.

Legal Studies Duration: 1 Semester

Students will study both criminal and civil as well as business laws. Topics that will be covered include legal history, current legal issues, contracts, insurance, consumer law, case analysis, and the court system. The class will also include 2 mock trials in which students will play the roles of lawyers, witnesses, jurors, defendants, and other trial participants. Finally, students will learn from analyzing cases, participating in class discussions, and viewing videos. Major Units Include: Intro to Law and the Legal System, Criminal Law and Juvenile Justice, Torts, Consumer Housing Law, Family Law, and Individual Rights and Liberties.

Ancient Civilizations Duration: 1 Semester

Students will study prehistoric humans and the following civilizations: Mesopotamia, Egypt, Israel, China, India, Greece, Rome, and Native Americans. This course will focus on building a great understanding of the geographic, political, religious, and social structures of each civilization.

Creative Writing: Duration: 1 Semester

Creative Writing will be dedicated to the exploration of creativity in thought as well as in writing. This course is designed to aid students in their creative expression, as well as the delivery of their writing. Many different types of writing will be explored and may include writing such as: poetry, memoirs, graphic novels, scripting, children's literature, and journaling. Students will practice different writing techniques to enhance both the process of writing, as well as the process of creative thinking.

Research Writing: Duration: 1 Semester

Research Writing is a course intended to guide students through the research process. Students will spend time focusing on each step of the research process in order to understand the importance of each step and master it. Students will learn and about and put into practice the following skills: choosing a topic, finding, evaluating, and citing sources, gathering and organizing information, and drafting, editing, and revising the final copy of their research paper.

Publications Duration: 1 Semester

This class develops skills needed to produce a yearbook and the student newsletter, *The Tweet*. Journalistic skills such as ad campaigns, layout and design are practiced. Students are required to obtain advertisements to support the cost of the Yearbook. They will gather strong photo images, produce well-written copies and illustrate solid designs. Knowledge of computers, basic art, and creative writing is beneficial. Students will need to complete all pages on schedule, and, if necessary, return after graduation.

Journalism Duration: 1 Semester

This class will address taking a stance and thinking critically through writing and journalism. Students will complete a variety of tasks through the trimester to further develop their writing, vocabulary, and grammar skills.

Ancient Civilizations: Duration: 1 Semester

In Ancient Civilizations, we study prehistoric humans and the following civilizations: Mesopotamia, Egypt, Israel, China, India, Greece, Rome, and Native

Americans. We focus on building a great understanding of the geographic, political, economic, religious, and social structures of each civilization.

Greek Mythology Duration: 1 Semester

Greek Mythology is a course that focuses on Ancient Greece and their belief in the Gods. In this class, we will learn about the most well known Gods, the Olympians, through stories, plays, and movies. We will also discuss the Ancient Greek's belief in heroes, such as Perseus and Heracles. Students will discover how these classical myths helped explain the world around the Ancients and also see how these classical myths still inspire us today.

History Through Film and Research Duration: 1 Semester

In History Through Film and Research, students will analyze historical events and periods through both research, documentaries, and fictional films about the time period. Students will spend time understanding the facts and events surrounding various historical eras through research first. Students will evaluate both primary and secondary sources to gather this information. Students will also view documentaries about the time period. After understanding the facts and events about the various time periods, students will spend time watching and evaluating a fictional film about that time period. Students will ultimately compare and contrast what information they gathered from their research, the documentaries, and the fictional films. Students will focus on understanding how fictional film affects people's understanding of historical events.

Dystopian Literature Duration: 1 Semester

Here's a course description of Dystopian Literature for when students, no doubt, will have questions about what that class even means. :D In this course, students will explore the worlds of dystopian literature. The course will begin with a discussion of the dystopian model of fiction in general—its tendency toward envisioning oppressive societies and regimes—and students will reflect on why writers create such alternative models of the world. Students will read and study two examples of dystopian literature. Students will examine identity, self-development, social problems, struggles of the individual against society, and larger theoretical questions posed through this genre of literature. Students will apply their understanding of dystopian literature by completing a culminating project through which they will create their own dystopian society.

Debate Duration: 1 Semester

This class will address debating in a format that involves interpreting resolutions, developing affirmative and negative case constructions, cross-examinations, and evaluating arguments.

Short Story Composition Duration: 1 Semester

Short Story Composition focuses on studying the elements of a short story through mentor texts, analyzing these elements, and using study of these elements to create original short stories.

Students will study multiple genres including mystery, adventure, science fiction, and fairy tales. In addition to creating original short stories, students will be challenged to transform their short stories into other mediums such as screen plays, comic books, and children's books.

History of Michigan Duration: 1 Semester

This class will present the history of Michigan within its geographic, economic and political context as the heart of the Great Lakes region. The course will discuss the settlement of the area, its cultural history, the establishment of modern structures and the issues of Michigan society today. Michigan's role within U.S. history both politically and economically will be investigated as well. The goal of the class is to tell the story of Michigan's past and come to understand the state in which we live in today.

Personal Finance Duration: 1 Semester

Personal Finance is an elective course designed to help students understand the impact of individual choices on occupational goals and future earnings potential. Topics covered will include income, money management, spending and credit, as well as saving and

investing. Students will design personal and household budgets, simulate use of checking and savings accounts, demonstrate knowledge of finance, debt, and credit management, and evaluate and understand insurance and taxes. This course will provide a foundational understanding for making informed personal financial decisions.

Mathematical Life Skills Duration: 1 Semester

Students will learn how to set up a plan for their money using Financial Peace University (FPU). Through video teaching, class discussions and interactive small group activities, FPU presents practical steps to get from where you are to where you've dreamed you could ever be. This plan will show students how to get rid of debt, manage their money, spend and save wisely, and much more!

Current Events Duration: 1 Semester

The study of the world around us in the 21st Century. Topics will range from political parties and presidential elections, the war on terror, immigration, crime in America, etc. We will utilize different media outlets including the internet, television news, and of course, the newspaper. Students will be expected to participate in daily classroom discussions, debates and projects as we analyze major topics.

Academic Study Skills: SAT Prep/Math Duration: 1 Semester

Review of basic algebra concepts. Focus on important concepts needed for both Algebra 1 and Algebra 2 curriculum. Concepts reviewed are a large part of review for SAT as well as basic problem solving skills.

Ninth Grade Seminar: Duration: 1 semester

We will learn/practice how to be and stay organized, how to deal with stress, time management, study techniques, ect. We will practice as a class on how to create notecards for tests, how to peer edit, how to study for different types of classes, how to research.

Algebra 1 Math Lab: Duration: 2 Semesters

This year, your student will be enrolled in an Algebra 1 Math Lab class. This class is the period directly following the Algebra 1 class. The intent of the Math Lab is to provide additional time with me where we will work on homework, reinforce previous math skills, and maintain additional time needed for the Algebra 1 content. The Math Lab class will not require additional homework. However, participation will be graded during the additional class period as well as work completed during the class.

Geometry Math Lab: Duration: 2 Semesters

This year, your student will be enrolled in a Geometry Math Lab class. This class is the period directly following the Geometry class. The intent of the Math Lab is to provide additional time with me where we will work on homework, reinforce previous math skills, and maintain additional time needed for the Geometry content. The Math Lab class will not require additional homework. However, participation will be graded during the additional class period as well as work completed during the class.

Algebra 2 Math Lab: Duration: 2 Semesters

This year, your student will be enrolled in an Algebra 2 Math Lab class. This class is the period directly following the Algebra 2 class. The intent of the Math Lab is to provide additional time with me where we will work on homework, reinforce previous math skills, and maintain additional time needed for the Algebra 2 content. The Math Lab class will not require additional homework. However, participation will be graded during the additional class period as well as work completed during the class.

Academic Study Skill: SAT Prep/English: Duration: 1 Semester

Students will review literary and writing elements needed to succeed on the ACT. Practice ACT questions and writing prompts are provided to assist with preparation for the test. Students will also explore literary concepts through fiction and non-fiction texts provided. We will also address vocabulary and grammar in this class.

Film Studies: Duration: 1 Semester

Throughout this class, we will focus on the role that film plays as a storytelling device, a historical document, and an expression of imagination. In order to accomplish this task, we will spend time reflecting on the lessons that a variety of films teach and how they relate to our lives. We will be viewing films that are immediately engaging for and relevant to the lives of teenage students in one way or another. A majority of this class will be based off of self-reflection and whole-class discussion

Life Skills Duration: 1 Semester The Life Skills class offers students an opportunity to explore things in life that they will experience after they graduate from high school. Some of the topics include basic automotive and home maintenance, maintaining a checking account, nutritious eating, and setting and keeping a budget. Other topics may be discussed that are of interest to the class.

Careers-Find Your Future: This course is designed to guide students through the process of exploring and choosing potential career pathways. Students will engage in self-exploration activities such as skills and interests assessments and apply what they learn to the process of choosing a career. Course features include an exploration of post-secondary educational options and requirements, informational interview and job shadowing experiences, as well as problem solving and goal setting activities. This student-centered course focuses on helping students get to know themselves so they can find the future that's right for them! Instead of a final exam, students will complete an end-of-course project. To complete this project students will use the assignments in each unit to help them begin to develop an Educational Development Plan (EDP). An Educational Development Plan is designed to help students identify their career and educational goals as they relate to academic requirements. An EDP is a way for students to document their progress toward career and educational goals. If students have already started an EDP at their schools, they can use this final project to update it with the most current information about their career and educational goals.

Fine Arts:

Art 1 Duration: 1 Semester

Art 1 is an introduction to the basic elements and principles of art. Emphasis is placed on art criticism, the creative experience & problem solving. The techniques of basic drawing, painting, printmaking, clay and design are taught.

Digital Media Art & Photography Duration: 1 Semester

Digital Media Art a foundation course in the use of digital media and photography in the world of art. Focus of studies includes digital photography, layout, and imaging. The principles of graphic and industrial design and digital Photography will be explored and students will utilize contemporary design fundamentals using Adobe Photoshop, Illustrator, and InDesign.

Drawing and Painting Basics Duration: 1 Semester

Students will be introduced to the fundamentals of art and how to use basic elements such as line, shape, color, shading and space to create more realistic and developed final compositions. Materials used are pens, pencils, paint, watercolors, acrylic and colored pencils.

Videography Duration: 1 semester

High school filmmaking is an introductory class in which students will learn the basics of film production—from planning and writing scripts and storyboards to directing, shooting, and editing a complete production. The course will use digital video and editing software as students focus on creating a variety of visual arts presentations such as stop motion, animation, music videos, product advertisement, and theatrical performance. Throughout the course of the class students will need to be able to work individually as well as collaboratively in order to successfully complete the creative process.

Set Production and Design Duration: 1 Semester

This class will mainly focus on the production of three dimensional art and its design and application to the stage. Working alongside the high school drama class students will research, model, and build the set for the featured play and work behind the scenes to produce the actual performance, with an emphasis on staging, lighting and construction of props and costumes.

Music History in Film Duration: 1 Semester

Offers students the opportunity to study and compare the history and development of musical/film music in the twentieth and twenty-first century. They will critically examine a variety of music soundtracks and compare and contrast how the music reflects changes in our society and culture. We will investigate how musical/film music reflects shifts in cultures and communities.

Rock 'n' Roll Music History Duration: 1 Semester

A course of study that is open to students in grades 9-12. The purpose of this course is to examine the development of specific popular music genres and the artists that made them popular. Students will explore the different eras, styles, and artists... along with the political and social issues associated with this music. The class will include audio and video recordings to illustrate the stylistic differences and development of each era. Upon completion of this course, students will not only have a strong understanding of this music; they will also have improved listening skills for a greater appreciation of music as an art form.

Music in Film Duration: 1 Semester offers students the opportunity to study and compare the history and development of musical/film music in the twentieth and twenty-first century. They will critically examine a variety of music soundtracks and compare and contrast how the music reflects changes in our society and culture. We will investigate how musical/film music reflects shifts in cultures and communities.

High School Band/I Wind Ensemble Duration: 2 Semesters

The Merritt Academy High School Wind Ensemble is comprised of students ranging from two years instrumental music experience to those who have had up to seven years instrumental music experience on a concert band instrument. The instruments used in this class fall into the following categories: woodwinds, brass, and percussion. In addition to daily rehearsals each student is expected to practice at home on his or her own time. In the Merritt Academy High School Wind Ensemble, students will be taught fundamental techniques applicable to their instruments, and will be expected to demonstrate these techniques during rehearsals and performances. In addition to those techniques, students will be introduced to basic music theory. The teaching

methods used in instrumental music will develop discipline, and both personal and social skills, which

Basics of Music Duration: 1 Semester

This general course familiarizes the student with various forms of music through an examination of the masterpieces from the different historical periods. (Medieval through the 20th Century) The enjoyment of music and an appreciation of its contribution to life are emphasized. Students in this class will develop and understanding and appreciation for classical and popular music of the Western World. Through perceptive listening and the study of musical elements, forms, styles and composers, students will identify compositions by musical period and characteristics.

Choir Duration: 1 Semester

Choir focuses on the performing art of vocal music. Students learn basic music theory and study works of master composers. Throughout the course, students practice selections to present to the student body and the community. A basic knowledge of musical notation and the ability to read music is important.

Theatre/Exploration in Drama Duration:1 Semester

This course is designed to introduce students to the various elements of theatre and performing arts. Students will study various plays as well as the jobs of theatre such as: acting, directing, set design, sound, lights and make-up. Students will learn to become more comfortable in front of groups while performing scenes, reading and monologues.

The History of Rock 'n' Roll Duration: 1 Semester

A course of study that is open to students in grades 9-12. The purpose of this course is to examine the development of specific popular music genres and the artists that made them popular. Students will explore the different eras, styles, and artists... along with the political and social issues associated with this music. The class will include audio and video recordings to illustrate the stylistic differences and development of each era. Upon completion of this course, students will not only have a strong understanding of this music; they will also have improved listening skills for a greater appreciation of music as an art form.

Yearbook Production Duration: 1 semester

You are historians, journalists, and artists putting together a photojournalistic book that will be on shelves for many, many years to come. What you do in this room directly affects every person in the Merritt Academy school community but that's not all. It also affects members of the whole Merritt Academy community, future students and their families, and your own future 38-, 58- and 78-year-old selves. It is an honor and a big responsibility to be a part of the yearbook staff! Thank you for making the commitment! A True Journalistic Product... ..has credibility with its audience; it contains facts and can be used for record keeping. A journalistic approach will teach you skills in business, graphic design, visual communication, writing, photography and collaborative relationships; all which will serve you in whatever field you decide to pursue in the future. A non-journalistic book, on the other hand, simply will not stand the test of time. The Business of Yearbook is a Business: Course Objectives In order to capture and record the current school year for enjoyment and reference in the future, students will:

- write copy and captions in appropriate journalistic style for yearbook
- use good photojournalism techniques
- design a professional, attractive theme-based yearbook
- write effective headlines and captions
- edit, proofread and evaluate their own and

others' work • work cooperatively within time constraints (DEADLINES) and budget limitations • learn and use effective sales and promotional techniques.

Foreign Language:

Spanish 1 Duration: 2 Semesters

Students in this course review concepts learned in Middle School Spanish and it is covered more in depth and at a rapid pace. Students learn –AR, -ER, -IR verbs in Spanish, the subject pronoun chart and how to conjugate these verbs in the present tense, irregular verbs ser and estar (to be), Spanish sentence structure, basic translations and listening activities incorporating all vocabulary learned over different topics in Realidades 1. Students learn in this course expand their knowledge of present tense by learning more irregular verbs such as tener, venir, and ir. Students are introduced to stem changing (spelling changing) verbs such as pensar, querer, preferir, dormir, and poder and learn about the present progressive tense. Students read the chapter dialogues introducing the vocabulary and translate the related topics in Realidades 1.

Spanish 2 Duration: 2 Semesters

Students learn in this course learn about regular preterite (past) tense (-ar, -er, -ir) verbs. They learn about spelling changes in gar, zar, and car verbs in preterite tense, direct object pronouns, stem changing verbs pedir and servir, saber vs. conocer (both verbs meaning to know), adjectives that describe nationality. Students learn in this course about reflexive verbs of daily routine vocabulary, irregular preterite (past) tense verbs, use past tense conjugations to state that an event happened, vocabulary related to fashion or shopping, demonstrative adjectives, direct object pronouns to avoid repeating words, asking and answering questions regarding giving directions, making a map of a town in Spanish, and affirmative tu commands to have someone do something.

Prerequisite: Spanish 1

Spanish 3 (Honors) Duration: 2 Semesters

Spanish 3 is a course for the intermediate Spanish student that focuses on a continuing development of conversational skills as well as the reading and writing of Spanish. In addition to the text, students read and discuss children's books, short stories, poetry, newspaper articles in Spanish, and a contemporary novel.

Prerequisite: Spanish 2

Spanish 4 (Honors) Duration: 2 Semesters

Spanish 4 is designed for the advanced Spanish student. Emphasis in this course is consistent exposure to Spanish speaking, listening, and reading stories by different Hispanic authors to enhance fluency and interpreting skills.

Prerequisite: Spanish 3

French 1 Duration: 2 Semesters

Focuses in the areas of listening, reading, writing and speaking the first year student will be able to use the present tense of frequently used verbs in all forms of speech: statements, questions and negative sentences. Students will be introduced to the French-speaking world, customs and traditions by means of audio, video tapes and computer technology. Cultural studies include French cuisine, school system, family life, calendar, music, geography and art.

French 2 Duration: 2 Semesters

The students will demonstrate reading, listening, writing and speaking proficiency in the passé composé, recent past, near future and simple future tense, imperative mood and other grammatical concepts. French historical and cultural information will be closely related to the grammatical and lexical structure of the course.

Prerequisite: French 1

French 3 (Honors) Duration: 2 Semesters

The students will demonstrate listening, reading, writing and speaking proficiency in the following tenses: imperfect, pluperfect, present of conditional, and present of subjunctive used in different linguistic situations. Students will also study the French-speaking world. Studies of culture, literature and history will continue.

Prerequisite French 2

French 4 (Honors) Duration: 2 Semesters

The class builds and expands on the first three years of French. In this course, students will continue the balanced approach, but at a more complex level. The course is designed to improve the students' oral communication skills, competency in written expression and comprehension of historical and literary excerpts. The French cultural studies continue in a more complete and extensive perspective including art, literature, history and way of life.

Italian 1:Duration: 2 Semesters

The class provides elementary practice in listening, reading, writing and speaking the Italian language. Learning will concentrate on bringing new vocabulary and grammar into relevant and meaningful communicative situations. Students will be introduced to the Italian culture, customs, and traditions by means of audio, video tapes and computer technology that will enhance students' ability to communicate in Italian. Cultural studies will include Italian cuisine, family life, famous people, sports, free time activities, geography and art.

Italian 2:Duration: 2 Semesters

The class emphasizes speaking and understanding Italian through vocabulary building, grammar applications, guided conversations and a variety of communicative activities that will improve students' pronunciation and comprehension. Students will continue to develop proficiency in the areas of listening, reading, writing and culture. Cultural studies will include Rome, music, vacations, getting around Italy, family celebrations and Italian Catholic heritage.

Prerequisite: Italian 1

Italian 3 (Honors) Duration: 2 Semesters

The class will engage a greater use of the language in the classroom with concentration on developing student's confidence with the language. More advanced grammar and vocabulary themes will be used as a foundation to further oral and written expression ability in Italian. Cultural topics include traveling, songs, influential Italians and Italian historic themes as well as an in-depth study of the cultural areas covered in the first two years of Italian.

Italian 4 (Honors) Duration: 2 Semesters

The course builds and expands on the first three years of Italian study through further development of oral proficiency, written expression, reading comprehension, awareness and knowledge of important characteristics of Italian culture such as family, education, cinema, health care, music, politics, mass media, and catholic tradition by using authentic materials, audio and video texts.

American Sign Language Duration: 1 Semester

This is the first course in a two-course sequence and focuses on everyday communication in ASL. It introduces students to the basic signs, techniques, and culture knowledge, which will support the students to start signing beginning level conversational ASL. Each lesson is built upon a familiar topic such as family, self and friends so that students will find meaningful connection to the lessons. Students will be asked to use various media tools including online resources, online dictionaries, a web cam, and the web based audio-visual tool VoiceThread to master the content presented in the course. Students will be producing their own signing videos to demonstrate their learning. The goal of this course is to help develop fundamental ASL skills, knowledge, and interest that students will need to advance to the higher levels of ASL courses. The learning objectives target Mid-Novice-High Level of MI World Language Standards and Benchmarks.

AP FRENCH: This course is the first semester of a two-semester sequence and is aligned to the Advanced Placement curriculum for French Language and Culture. AP French is designed as an immersion experience requiring the use of French exclusively. The online learning coach uses mostly French to communicate with students and almost all reading, listening, speaking and writing is in French. The course teaches language structures in context and focuses on the development of fluency to convey meaning. Students explore culture in both contemporary and historical contexts to develop an awareness and appreciation of cultural products, practices, and perspectives. Course does not include the AP Exam; students can contact their school's AP Coordinator or the College Board to sign up to take the Exam. In order to maintain the integrity of AP standards, all AP course midterm and final exams must be proctored.

German 1A: German 1A is the first semester of a two-semester course. In German 1A, students will begin their language-learning journey by gaining the skills needed to talk about themselves and their immediate environment. Students will learn to introduce themselves, share some basic personal information, talk about their family and friends, discuss what they like to do for fun, and describe their daily routine at home and school. The class takes a proficiency-based approach, which is informed by current language acquisition research and the ACTFL performance descriptors for novice language learners. A heavy focus is put on German-speaking cultures around the world, with grammar being learned implicitly through input and meaning-based activities. Throughout the 4 Modules, each containing 3 units, students' language learning is guided by Can Do statements which focus on specific language abilities, such as "I can greet others and introduce myself."

Other Electives:

Health Education Duration: 1 Semester

Students will: comprehend concepts related to health promotion and disease prevention; demonstrate the ability to access valid health information and health-promoting products and services; demonstrate the ability to practice health-enhancing behaviors and reduce health-related risks; analyze the influence of culture, media, technology, and other factors on health; demonstrate the ability to use interpersonal communication skills to enhance health; and demonstrate the ability to advocate for personal, family, and community health. Specific topics include: nutrition, mental health, communicable diseases (HIV/AIDS is a mandated piece of this section), ATOD (alcohol, tobacco and other drugs as mandated by state and federal law), family life and relationships. Students are strongly encouraged to discuss the course content and work with their families for the duration of this course.

Advanced Physical Education/Weight Training Duration: 1 Semester

Advanced Physical Education is designed to further enhance the fitness skills learned in regular Physical Education and promote the development of a fit, healthy lifestyle. The focus of the class will address the five components of fitness: resting measurements, cardiorespiratory endurance, muscular strength, muscular endurance and flexibility. Students will also go in depth, learning about the muscular system, thus being able to identify correct lifting techniques to strengthen each group. Students will participate in a wide range of rigorous group fitness routines and activities and develop a personal fitness plan.

MIDDLE SCHOOL ELECTIVES

Band	Technology	Study Skills	Library
Spanish	Art	Current Events	Physical Education
Sculpture	Creative Writing	Academic Studies	Geographical Mapping

ELEMENTARY ELECTIVES

Music
Technology

Art
Library

Spanish

Physical Education

Merritt Virtual Academy

*These courses were approved by the Board of Education and purchased through Edgenuity.

English Language Arts

-
Common Core ELA 6: This course eases students' transition to middle school with engaging, age-appropriate literary and informational reading selections. Students learn to read critically, analyze texts, and cite evidence to support ideas as they read essential parts of literary and informational texts and explore a full unit on Lewis Carroll's classic novel *Through the Looking Glass*. Vocabulary, grammar, and listening skills are sharpened through lessons that give students explicit modeling and ample practice. Students also engage in routine, responsive writing based on texts they have read. In extensive, process-based writing lessons, students write topical essays in narrative, informative, analytical, and argumentative formats. In this full-year course, students develop a mastery of reading, writing, and language arts skills.

Common Core ELA 7: Students grow as readers, writers, and thinkers in this middle school course. With engaging literary and informational texts, students learn to think critically, analyze an author's language, and cite evidence to support ideas. Students complete an in-depth study of Jack London's classic novel *White Fang* and read excerpts from other stories, poetry, and nonfiction. Explicit modeling and ample opportunities for practice help students sharpen their vocabulary, grammar, and listening skills. Students also respond routinely to texts they have read. In extensive, process-based writing lessons, students write topical essays in narrative, informative, analytical, and argumentative formats. In this full-year course, students develop a mastery of reading, writing, and language arts skills.

Common Core ELA 8: In this course, students build on their knowledge and blossom as thoughtful readers and clear, effective writers. A balance of literary and informational texts engage students throughout the course in reading critically, analyzing texts, and citing evidence to support claims. Students sharpen their vocabulary, grammar, and listening skills through lessons designed to provide explicit modeling and ample opportunities to practice. Students also routinely write responses to texts they have read, and use more extensive, process-based lessons to produce full-length essays in narrative, informative, analytical, and argumentative to provide each student with a learning experience equivalent to that obtained in most introductory college psychology courses. In addition, this course has been designed to help students successfully achieve a passing score on the AP® Psychology exam.

Common Core ELA 9: This freshman-year English course engages students in literary analysis and inferential evaluation of great texts both classic and contemporary. While critically reading fiction, poetry, drama, and literary nonfiction, students will master comprehension and literary-analysis strategies. Interwoven in the lessons across two semesters are activities that encourage students to strengthen their oral language skills and produce clear, coherent writing. Students will read a range of classic texts including Homer's *The Odyssey*, Shakespeare's *Romeo and Juliet*, and Richard Connell's "The Most Dangerous Game." They will also study short but complex texts, including influential speeches by Dr. Martin Luther King Jr., Franklin D. Roosevelt, and Ronald Reagan. Contemporary texts by Richard Preston, Julia Alvarez, and Maya Angelou round out the course.

Common Core ELA 10: Focused on application, this sophomore English course reinforces literary analysis and twenty-first century skills with superb pieces of literature and literary nonfiction, application e-resources, and educational interactives. Each thematic unit focuses on specific literary analysis skills and allows students to apply them to a range of genres and text structures. As these units meld modeling and application, they also expand on training in media literacy, twenty-first century career skills, and the essentials of grammar and vocabulary. Under the guidance of the eWriting software, students also compose descriptive, persuasive, expository, literary analysis, research, narrative, and compare-contrast essays.

Common Core ELA 11: This junior-year English course invites students to delve into American literature from early American Indian voices through contemporary works. Students engage in literary analysis and inferential evaluation of great texts as the centerpieces of this course. While critically reading fiction, poetry, drama, and expository nonfiction, students master comprehension and literary analysis strategies. Interwoven in the lessons across two semesters are tasks that encourage students to strengthen their oral language skills and produce creative, coherent writing. Students read a range of short but complex texts, including works by Ralph Waldo Emerson, Emily Dickinson, Herman Melville, Nathaniel Hawthorne, Paul Laurence Dunbar, Martin Luther King, Jr., F. Scott Fitzgerald, Sandra Cisneros, Amy Tan, and Dave Eggers.

Common Core ELA 12: This senior-level English course offers fascinating insight into British literary traditions spanning from Anglo-Saxon writing to the modern period. With interactive introductions and historical contexts, this full-year course connects philosophical, political, religious, ethical, and social influences of each time period to the works of many notable authors, including Chaucer, William Shakespeare, Queen Elizabeth I, Elizabeth Barrett Browning, and Virginia Woolf. Adding an extra dimension to the British literary experience, this course also exposes students to world literature, including works from India, Europe, China, and Spain.

Literacy & Comprehension 1: This course is one of two intervention courses designed to support the development of strategic reading and writing skills. These courses use a thematic and contemporary approach, including high-interest topics to motivate

students and expose them to effective instructional principles using diverse content area and real-world texts. Both courses offer an engaging technology-based interface that inspires and challenges students to gain knowledge and proficiency in the following comprehension strategies: summarizing, questioning, previewing and predicting, recognizing text structure, visualizing, making inferences, and monitoring understanding with metacognition. Aimed at improving fluency and vocabulary, self-evaluation strategies built into these courses inspire students to take control of their learning.

Literacy & Comprehension 2: Offering high-interest topics to motivate students who are reading two to three levels below grade, this course works in conjunction with Literacy & Comprehension I to use a thematic and contemporary approach to expose students to effective instructional principles using diverse content area and real-world texts. Each of these reading intervention courses offers an engaging, technology-based interface that inspires and challenges high school and middle school students to gain knowledge and proficiency in the following comprehension strategies: summarizing, questioning, previewing and predicting, recognizing text structure, visualizing, making inferences, and monitoring understanding with metacognition. Aimed at improving fluency and vocabulary, self-evaluation strategies built into these courses inspire students to take control of their learning.

Introduction to Communications and Speech: Beginning with an introduction that builds student understanding of the elements, principles, and characteristics of human communication, this course offers fascinating insight into verbal and nonverbal messages and cultural and gender differences in the areas of listening and responding. High school students enrolled in this one-semester course will be guided through engaging lectures and interactive activities, exploring themes of self-awareness and perception in communication. The course concludes with units on informative and persuasive speeches, and students are given the opportunity to critique and analyze speeches.

Expository Reading and Writing: This elective English course is designed to develop critical reading and writing skills while preparing high school students to meet the demands of college-level work. While students will explore some critical reading skills in fiction, poetry, and drama. The focus of this course will be on expository and persuasive texts as well as the analytical reading skills that are necessary for college success. Students will read a range of short but complex texts, including works by Walt Whitman, Abraham Lincoln, Cesar Chavez, Martin Luther King Jr., Langston Hughes, Julia Alvarez, Edna St. Vincent Millay, and Gary Soto.

IDEA Writing: Motivating students in grades nine through twelve to become more articulate and effective writers, this one-semester course offers hands-on experience writing personal reflections, definition essays, research essays, persuasive essays, informative essays, and literary analysis essays. Offering targeted lessons on reputable research, effective communication, solid grammar, and compelling style, this one-semester course utilizes the Six Traits of Effective Writing as an overarching framework. Students enrolled in this course develop the skills necessary to evaluate their own

writing and articulate and apply writing and researching strategies. In addition, students get further practice applying the grammatical rules of standard American English in formal writing.

Classic Novels & Author Studies: The Classic Novels mini-courses give students the opportunity to fully explore a large work of fiction or to be introduced to a celebrated author. Designed to stand alone or to be inserted into an existing Edgenuity course, each mini-course guides students through the work with lectures, web activities, journals, and homework/practice. Students study the following novels: 1984, A Midsummer Night's Dream, Call of the Wild, Dr. Jekyll and Mr. Hyde, Heart of Darkness, Jane Eyre, Macbeth, Mrs. Dalloway, Portrait of the Artist, Robinson Crusoe, The House of Seven Gables, The Red Badge of Courage, and The Three Musketeers along with the following author studies: Jorge Luis Borges and Flannery O'Connor.

Language Arts 9 Honors: This freshman honors English course invites students to explore a variety of diverse and complex texts organized into thematic units. Students will engage in literary analysis and inferential evaluation of great texts, both classic and contemporary. While critically reading fiction, poetry, drama, and literary nonfiction, honors students will master comprehension, use evidence to conduct in-depth literary analysis, and examine and critique how authors develop ideas in a variety of genres. Interwoven throughout the lessons are activities that encourage students to strengthen their oral language skills, research and critically analyze sources of information, and produce clear, coherent writing. In addition to activities offered to students in core courses, honors students are given additional opportunities to create and to participate in project-based learning activities, including writing a Shakespearian sonnet and creating an original interpretation of a Shakespearian play.

Language Arts 10 Honors: This sophomore-year honors English course provides engaging and rigorous lessons with a focus on academic inquiry to strengthen knowledge of language arts. Honors reading lessons require analyzing complex texts, while concise mini-lessons advance writing and research skills to craft strong, compelling essays and projects. Students will write argumentative and analytical essays based on literary texts, as well as an informative research paper using MLA style. Throughout the course, students read a range of classic and contemporary literary texts. Students will read and analyze complex informational and argumentative texts.

Mathematics

-
Common Core Math 6: This course begins by connecting ratio and rate to multiplication and division, allowing students to use ratio reasoning to solve a wide variety of problems. Students further apply their understanding of multiplication and division to explain the standard procedure for dividing fractions. This course builds upon previous notions of the number system to now include the entire set of rational numbers. Students begin to understand the use of variables as they write, evaluate, and simplify expressions. They use the idea of equality and properties of operations to solve one-step equations and inequalities. In statistics, students explore different graphical ways to display data. They use data displays, measures of center, and measures of variability

to summarize data sets. The course concludes with students reasoning about relationships among shapes to determine area, surface area, and volume.

Common Core Math 7: This course begins with an in-depth study of proportional reasoning during which students utilize concrete models such as bar diagrams and tables to increase and develop conceptual understanding of rates, ratios, proportions, and percentages. Students' number fluency and understanding of the rational number system are extended as they perform operations with signed rational numbers embedded in real-world contexts. In statistics, students develop meanings for representative samples, measures of central tendency, variation, and the ideal representation for comparisons of given data sets. Students develop an understanding of both theoretical and experimental probability. Throughout the course, students build fluency in writing expressions and equations that model real-world scenarios. They apply their understanding of inverse operations to solve multi-step equations and inequalities. Students build on their proportional reasoning to solve problems about scale drawings by relating the corresponding lengths between objects. The course concludes with a geometric analysis of angle relationships, area, and volume of both two- and three-dimensional figures.

Common Core Math 8: The course begins with a unit on input-output relationships that builds a foundation for learning about functions. Students make connections between verbal, numeric, algebraic, and graphical representations of relations and apply this knowledge to create linear functions that can be used to model and solve mathematical and real-world problems. Technology is used to build deeper connections among representations. Students focus on formulating expressions and equations, including modeling an association in bivariate data with a linear equation, and writing and solving linear equations and systems of linear equations. Students develop a deeper understanding of how translations, rotations, reflections, and dilations of distances and angles affect congruence and similarity. Students develop rules of exponents and use them to simplify exponential expressions. Students extend rules of exponents as they perform operations with numbers in scientific notation. Estimating and comparing square roots of non-perfect squares to perfect squares exposes students to irrational numbers and lays the foundation for applications such as the Pythagorean theorem, distance, and volume.

Pre-Algebra: This full-year course is designed for students who have completed a middle school mathematics sequence but are not yet algebra- ready. This course reviews key algebra readiness skills from the middle grades and introduces basic Algebra I work with appropriate support. Students revisit concepts in numbers and operations, expressions and equations, ratios and proportions, and basic functions. By the end of the course, students are ready to begin a more formal high school Algebra I study.

Common Core Algebra I: This full-year course focuses on five critical areas: relationships between quantities and reasoning with equations, linear and exponential relationships, descriptive statistics, expressions and equations, and quadratic functions

and modeling. This course builds on the foundation set in middle grades by deepening students' understanding of linear and exponential functions and developing fluency in writing and solving one-variable equations and inequalities. Students will interpret, analyze, compare, and contrast functions that are represented numerically, tabularly, graphically, and algebraically. Quantitative reasoning is a common thread throughout the course as students use algebra to represent quantities and the relationships among those quantities in a variety of ways. Standards of mathematical practice and process are embedded throughout the course, as students make sense of problem situations, solve novel problems, reason abstractly, and think critically.

Common Core Geometry: This course formalizes what students learned about geometry in the middle grades with a focus on reasoning and making mathematical arguments. Mathematical reasoning is introduced with a study of triangle congruency, including exposure to formal proofs and geometric constructions. Then students extend what they have learned to other essential triangle concepts, including similarity, right-triangle trigonometry, and the laws of sines and cosines. Moving on to other shapes, students justify and derive various formulas for circumference, area, and volume, as well as cross-sections of solids and rotations of two-dimensional objects. Students then make important connections between geometry and algebra, including special triangles, slopes of parallel and perpendicular lines, and parabolas in the coordinate plane, before delving into an in-depth investigation of the geometry of circles. The course closes with a study of set theory and probability, as students apply theoretical and experimental probability to make decisions informed by data analysis.

Common Core Algebra II: This course focuses on functions, polynomials, periodic phenomena, and collecting and analyzing data. The course begins with a review of linear and quadratic functions to solidify a foundation for learning these new functions. Students make connections between verbal, numeric, algebraic, and graphical representations of functions and apply this knowledge as they create equations and inequalities that can be used to model and solve mathematical and real-world problems. As students refine and expand their algebraic skills, they will draw analogies among the operations and field properties of real numbers and those of complex numbers and algebraic expressions. Mathematical practices and habits of mind are embedded throughout the course, as students solve novel problems, reason abstractly, and think critically.

Mathematics I: The first in an integrated math series for high school, this course formalizes and extends middle school mathematics, deepening students' understanding of linear relationships. The course begins with a review of relationships between quantities, building from unit conversion to a study of expressions, equations, and inequalities. Students contrast linear and exponential relationships, including a study of sequences, as well as applications such as growth and decay. Students review one-, two-, and multi-step equations, formally reasoning about each step using properties of equality. Students extend this reasoning to systems of linear equations. Students use descriptive statistics to analyze data before turning their attention to transformations and the relationship between algebra and geometry on the coordinate plane.

Mathematics II: This course begins with a brief exploration of radicals and polynomials before delving into quadratic expressions, equations, and functions, including a derivation of the quadratic formula. Students then embark on a deep study of the applications of probability and develop advanced reasoning skills with a study of similarity, congruence, and proofs of mathematical theorems. Students explore right triangles with an introduction to right- triangle trigonometry before turning their attention into the geometry of circles and making informal arguments to derive formulas for the volumes of various solids.

Mathematics III: This course synthesizes previous mathematical learning in four focused areas of instruction. First, students relate visual displays and summary statistics to various types of data and to probability distributions with a focus on drawing conclusions from the data. Then, students embark on an in-depth study of polynomial, rational, and radical functions, drawing on concepts of integers and number properties to understand polynomial operations and the combination of functions through operations. This section of instruction builds to the fundamental theorem of algebra. Students then expand the study of right-triangle trigonometry they began in Mathematics II to include non-right triangles and developing the laws of sines and cosines. Finally, students model an array of real- world situations with all the types of functions they have studied, including work with logarithms to solve exponential equations. As they synthesize and generalize what they have learned about a variety of function families, students appreciate the usefulness and relevance of mathematics in the real world.

Precalculus: With an emphasis on function families and their representations, Precalculus is a thoughtful introduction to advanced studies leading to calculus. The course briefly reviews linear equations, inequalities, and systems and moves purposefully into the study of functions. Students then discover the nature of graphs and deepen their understanding of polynomial, rational, exponential, and logarithmic functions. Scaffolding rigorous content with clear instruction, the course leads students through an advanced study of trigonometric functions, matrices, and vectors. The course concludes with a short study of probability and statistics.

Statistics and Probability: This full year high school course provides an alternative math credit for students who may not wish to pursue more advanced mathematics courses such as Algebra II and Pre-Calculus. The first half of the course begins with an in-depth study of probability and an exploration of sampling and comparing populations and closes with units on data distributions and data analysis. In the second half of the course, students create and analyze scatter plots and study two-way tables and normal distributions. Finally, students apply probability to topics such as conditional probability, combinations and permutations, and sets.

Mathematical Models with Applications: Broadening and extending the mathematical knowledge and skills acquired in Algebra I, the primary purpose of this course is to use mathematics as a tool to model real-world phenomena students may encounter daily,

such as finance and exponential models. Engaging lessons cover financial topics, including growth, smart money, saving, and installment-loan models. Prior mathematical knowledge is expanded and new knowledge and techniques are developed through real-world application of useful mathematical concepts.

Financial Math: Connecting practical mathematical concepts to personal and business settings, this course offers informative and highly useful lessons that challenge students to gain a deeper understanding of financial math. Relevant, project-based learning activities cover stimulating topics such as personal financial planning, budgeting and wise spending, banking, paying taxes, the importance of insurance, long-term investing, buying a house, consumer loans, economic principles, traveling abroad, starting a business, and analyzing business data. Offered as a two-semester course for high school students, this course encourages mastery of math skill sets, including percentages, proportions, data analysis, linear systems, and exponential functions.

Trigonometry: In this one-semester course, students use their geometry and algebra skills to begin their study of trigonometry. Students will be required to express understanding using qualitative, quantitative, algebraic, and graphing skills. This course begins with a quick overview of right-triangle relationships before introducing trigonometric functions and their applications. Students explore angles and radian measures, circular trigonometry, and the unit circle. Students extend their understanding to trigonometric graphs, including the effects of translations and the inverses of trigonometric functions. This leads to the laws of sines and cosines, followed by an in-depth exploration of trigonometric identities and applications. This course ends with an introduction to the polar coordinate system, complex numbers, and DeMoivre's theorem.

Algebra I Honors: This full-year honors course introduces students to linear, exponential, and quadratic functions by interpreting, analyzing, comparing, and contrasting functions that are represented numerically, tabular, graphically, and algebraically. Technology is utilized within some lessons to further support students in identifying key features as well as displaying images of the functions. The course builds upon the basic concepts of functions to include transformations of linear and non-linear functions. Students deepen their understanding of quantitative reasoning, piecewise functions, and quadratic functions through performance tasks. The additional performance-based skills allow the honors students to apply more of the concepts taught in the course. The course concludes with students analyzing data through displays and statistical analysis.

Algebra II Honors: The course begins with a review of concepts that will assist students throughout the course, such as literal equations, problem solving, and word problems. Students then progress to a unit on functions where students compute operations of functions, compose of functions, and study inverses of functions. To build on their algebraic skills, students learn about complex numbers and apply them to quadratic functions via completing the square and quadratic formula methods. Next, students solve linear systems and apply their knowledge of the concept to three-by-three systems. An in-depth study on polynomial operations and functions allow

students build their knowledge of polynomials algebraically and graphically. In the second semester, students study nonlinear functions. Students solve and graph rational and radical functions whereas the exponential and logarithmic functions focus on the key features and transformations of the functions. Expected value and normal distribution concepts expand and deepen students' knowledge of probability and statistics. Students also cover trigonometric functions and periodic phenomena.

Science

-
MI-Grade 6 Physical Science: This full-year course focuses on basic concepts in chemistry and physics and encourages exploration of new discoveries in the field of physical science. The course includes an overview of scientific principles and procedures and has students examine the chemical building blocks of our physical world and the composition of matter. Additionally, students explore the properties that affect motion, forces, and energy on Earth. Building on these concepts, the course covers the properties of electricity and magnetism and the effects of these phenomena. As students refine and expand their understanding of physical science, they will apply their knowledge to complete interactive virtual labs that require them to ask questions and create hypotheses. Hands-on wet lab options are also available.

MI-Grade 7 Life Science: Examining a broad spectrum of biological sciences, Life Science is a full-year course for middle school students that builds on basic principles of scientific inquiry and translates those skills to more complex, overarching biological themes. The course includes units that help students understand the definitions, forms, and classifications of living organisms and learn to analyze the diversity of each unique group of living organisms. Other units introduce students to the structures and functions of cells, cell theory, and cell reproduction. These larger themes are then applied to other topics, such as genetics, Darwinian theory, and human biology and health. An introduction of ecology draws all of these concepts together to examine the interrelationships that help to maintain life on Earth.

MI-Grade 8 Earth Systems Science: Students enrolled in this dynamic course explore the scope of Earth sciences, covering everything from basic structure and rock formation to the incredible and volatile forces that have shaped and changed our planet. As climate change and energy conservation become increasingly prevalent in the national discourse, it will be important for students to understand the concepts and causes of our changing Earth. Earth Science is a two-semester course that provides a solid foundation for understanding the physical characteristics that make the planet Earth unique and examines how these characteristics differ among the planets of our solar system.

MI-Biology: This compelling two-semester course engages students in the study of life and living organisms and examines biology and biochemistry in the real world. This is a yearlong course that encompasses traditional concepts in biology and encourages exploration of new discoveries in this field of science. The components include

biochemistry, cell biology, cell processes, heredity and reproduction, the evolution of life, taxonomy, human body systems, and ecology. This course includes both hands-on wet labs and virtual lab options.

MI-Chemistry: This rigorous, full-year course engages students in the study of the composition, properties, changes, and interactions of matter. The course covers the basic concepts of chemistry and includes eighteen virtual laboratory experiments that encourage higher-order thinking applications, with wet lab options if preferred. The components of this course include chemistry and its methods, the composition and properties of matter, changes and interactions of matter, factors affecting the interactions of matter, electrochemistry, organic chemistry, biochemistry, nuclear chemistry, mathematical applications, and applications of chemistry in the real world.

MI-Earth and Space Science: Students enrolled in this dynamic course explore the scope of Earth sciences, covering everything from basic structure and rock formation to the incredible and volatile forces that have shaped and changed our planet. As climate change and energy conservation become increasingly prevalent in the national discourse, it will be important for students to understand the concepts and causes of our changing Earth. Earth Science is a two-semester course that provides a solid foundation for understanding the physical characteristics that make the planet Earth unique and examines how these characteristics differ among the planets of our solar system.

Physical Science: This full-year course focuses on basic concepts in chemistry and physics and encourages exploration of new discoveries in the field of physical science. The course includes an overview of scientific principles and procedures and has students examine the chemical building blocks of our physical world and the composition of matter. Additionally, students explore the properties that affect motion, forces, and energy on Earth. Building on these concepts, the course covers the properties of electricity and magnetism and the effects of these phenomena. As students refine and expand their understanding of physical science, they will apply their knowledge to complete interactive virtual labs that require them to ask questions and create hypotheses. Hands-on wet lab options are also available.

Physics: This full-year course acquaints students with topics in classical and modern physics. The course emphasizes conceptual understanding of basic physics principles, including Newtonian mechanics, energy, thermodynamics, waves, electricity, magnetism, and nuclear and modern physics. Throughout the course, students solve mathematical problems, reason abstractly, and learn to think critically about the physical world. The course also includes interactive virtual labs and hands-on lab options, in which students ask questions and create hypotheses.

Environmental Science: Environmental science is a captivating and rapidly expanding field, and this two-semester course offers compelling lessons that cover many aspects of the field: ecology, the biosphere, land, forests and soil, water, energy and resources,

and societies and policy. Through unique activities and material, high school students connect scientific theory and concepts to current, real-world dilemmas, providing them with opportunities for mastery in each of the segments throughout the semester.

Social Studies

MI-Eastern Hemisphere Studies (grade 6): History and Geography, History and Geography Skills, Concepts of Culture, Concepts of Global Society, Concepts of Global Economics, Physical and Political Geography of Africa, Regional Studies, Physical and Political Geography of the Middle East, The Middle East, Physical and Political Geography of South and Southeast Asia, South and Southeast Asia, Physical and Political Geography of Central and East Asia, Central and East Asia, Geography of Australia and Oceania, Physical and Political Geography of Europe, Europe, The Early History of Africa and Asia, The Middle East, India and South Asia, Central and East Asia, Ancient Greece, Ancient Rome, The Development of Modern Nations, and Modern Issues.

MS World Cultures and Geography (grade 7): Designed to introduce students to the study of geography, this course helps students master important concepts in physical and human geography. Comprehensive and organized by region, this two-semester middle school course helps students understand the Earth's physical and human diversity. Students analyze population and settlement patterns and evaluate the ways that human activities modify the physical environment. While studying humans around the world, students compare development, standards of living, systems of government, and economic factors across the globe. In addition, students gain a rich understanding of global cultures and the historical factors that have shaped the world around them. All units in the course are parallel and include studies in physical and human geography, ancient cultures, regional studies, and modern issues.

MI-Integrated U.S. History (grade 8): Foundations of the United States, Industrialization and Business, Immigration and Urbanization, Populism and Progressivism, Imperialism and the Great War, The Interwar Years, Entering World War II, Fighting World War II, The Rise of the Cold War, Civil Rights, An Era of Cultural Change, The Contemporary Nation, and The Nation in a New Millennium.

MI-Government/Civics: This semester-long course provides students with a practical understanding of the principles and procedures of government. The course begins by establishing the origins and founding principles of American government. After a rigorous review of the Constitution and its amendments, students investigate the development and extension of civil rights and liberties. Lessons also introduce influential Supreme Court decisions to demonstrate the impact and importance of constitutional rights. The course builds on this foundation by guiding students through the function of government today and the role of citizens in the civic process and culminates in an examination of public policy and the roles of citizens and organizations in promoting policy changes. Throughout the course, students examine primary and secondary sources, including political cartoons, essays, and judicial opinions. Students also

sharpen their writing skills in shorter tasks and assignments and practice outlining and drafting skills by writing full informative and argumentative essays World History.

MI-World History: This yearlong course examines the major events and turning points of world history from the Enlightenment to the present. Students investigate the foundational ideas that shaped the modern world in the Middle East, Africa, Europe, Asia, and the Americas, and then explore the economic, political, and social revolutions that have transformed human history. This rigorous study of modern history examines recurring themes, such as social history, democratic government, and the relationship between history and the arts, allowing students to draw connections between the past and the present, across cultures, and among multiple perspectives. Students use a variety of primary and secondary sources, including legal documents, essays, historical writings, and political cartoons to evaluate the reliability of historical evidence and to draw conclusions about historical events. Students also sharpen their writing skills in shorter tasks and assignments, and practice outlining and drafting skills by writing full informative and argumentative essays.

MI-U.S. History: U.S. History I is a yearlong course that dynamically explores the people, places, and events that shaped early United States history. This course stretches from the Era of Exploration through the Industrial Revolution, leading students through a careful examination of the defining moments that shaped the nation of today. Students begin by exploring the colonization of the New World and examining the foundations of colonial society. As they study the early history of the United States, students will learn critical-thinking skills by examining the constitutional foundations of U.S. government. Recurring themes such as territorial expansion, the rise of industrialization, and the significance of slavery will be examined in the context of how these issues contributed to the Civil War and Reconstruction.

MI-U.S. History II: A yearlong course that examines the major events and turning points of U.S. history from the Industrial Revolution through the modern age. The course leads students toward a clearer understanding of the patterns, processes, and people that have shaped U.S. history. As students progress through each era of modern U.S. history, they will study the impact of dynamic leadership and economic and political change on our country's rise to global prominence. Students will also examine the influence of social and political movements on societal change and the importance of modern cultural and political developments. Recurring themes lead students to draw connections between the past and the present, between cultures, and among multiple perspectives.

MI-Economics: This course invites students to broaden their understanding of how economic concepts apply to their everyday lives—including microeconomic and macroeconomic theory and the characteristics of mixed-market economies, the role of government in a free- enterprise system and the global economy, and personal finance strategies. Throughout the course, students apply critical-thinking skills while making practical economic choices. Students also master literacy skills through rigorous reading and writing activities. Students analyze data displays and write routinely and

responsively in tasks and assignments that are based on scenarios, texts, activities, and examples. In more extensive, process-based writing lessons, students write full-length essays in informative and argumentative formats.

Human Geography: Examining current global issues that impact our world today, this course takes a thematic approach to understanding the development of human systems, human understanding of the world, and human social organization. Divided into two semesters, this high school course will challenge students to develop geographic skills, including learning to interpret maps, analyze data, and compare theories. Offering interactive content that will grow students' understanding of the development of modern civilization and human systems—from the agricultural revolution to the technological revolution—this course encourages students to analyze economic trends as well as compare global markets and urban environments.

Modern World History: This yearlong course examines the major events and turning Students investigate the foundational ideas that shaped the modern world in the Middle East, Africa, Europe, Asia, and the Americas, and then explore the economic, political, and social revolutions that have transformed human history. This rigorous study of modern history examines recurring themes, such as social history, democratic government, and the relationship between history and the arts, allowing students to draw connections between the past and the present, across cultures, and among multiple perspectives. Students use a variety of primary and secondary sources, including legal documents, essays, historical writings, and political cartoons to evaluate the reliability of historical evidence and to draw conclusions about historical events. Students also sharpen their writing skills in shorter tasks and assignments, and practice outlining and drafting skills by writing full informative and argumentative essays.

World Language

Middle school

Spanish 1: Middle school students begin their introduction to Spanish with fundamental building blocks in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. Each unit consists of an ongoing adventure story, new vocabulary theme and grammar concepts, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, and multimedia cultural presentations covering major Spanish-speaking areas in Europe and the Americas.

Spanish 2: Students in middle school continue their introduction to Spanish with fundamental building blocks in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. Each unit consists of an ongoing adventure story, new vocabulary theme and grammar concepts, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, and multimedia cultural presentations covering major Spanish-speaking areas in Europe and the Americas.

French 1: Students in middle school begin their introduction to French with fundamental building blocks in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. Each unit consists of an ongoing adventure story, new vocabulary theme and grammar concepts, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, and multimedia cultural presentations covering major French-speaking areas in Europe and across the globe.

French 2: Middle school students continue their introduction to French with fundamental building blocks in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. Each unit consists of an ongoing adventure story, new vocabulary theme and grammar concepts, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, and multimedia cultural presentations covering major French-speaking areas in Europe and across the globe.

Chinese 1: In this middle school course, students begin their introduction to Chinese with fundamental building blocks in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. Each unit consists of an ongoing adventure story, new vocabulary theme and grammar concepts, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, and multimedia cultural presentations covering major Chinese-speaking countries.

Chinese 2: Middle school students continue their introduction to Chinese with fundamental building blocks in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. Each unit consists of an ongoing adventure story, new vocabulary theme and grammar concepts, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, and multimedia cultural presentations covering major Chinese-speaking countries.

German 1: Middle school students begin their introduction to German with fundamental building blocks in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. Each unit consists of an ongoing adventure story, new vocabulary theme and grammar concepts, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, and multimedia cultural presentations covering major German-speaking areas in Europe.

German 2: Students continue their introduction to middle school German with this second-year course by covering fundamental building blocks in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. Each unit consists of an ongoing adventure story, new vocabulary theme and grammar concepts, numerous interactive games reinforcing vocabulary and grammar, reading and listening

comprehension activities, speaking and writing activities, and multimedia cultural presentations covering major German-speaking areas in Europe.

Latin 1: Students in middle school begin their introduction to Latin with fundamental building blocks in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. Each unit consists of new vocabulary theme and grammar concepts, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, cultural presentations covering significant aspects of Roman culture or their modern-day manifestations, and assessments.

Latin 2: Middle school students continue their introduction to Latin with fundamental building blocks in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. Each unit consists of new vocabulary theme and grammar concepts, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, cultural presentations covering significant aspects of Roman culture or their modern-day manifestations, and assessments.

High school (Merritt Virtual Academy)

American Sign Language 1: This beginning of this full-year course will introduce you to vocabulary and simple sentences, so that you can start communicating right away. Importantly, you will explore Deaf culture: social beliefs, traditions, history, values and communities influenced by deafness. The second semester will introduce you to more of this language and its grammatical structures.

American Sign Language 2: In this course, students will build on the skills they learned in American Sign Language 1 and explore the long and rich history of Deaf culture and language. They will expand their knowledge of the language as well as their understanding of the world in which it is frequently used. Students will grow their sign vocabulary and improve their ability to interact using facial expressions and body language. They will also learn current trends in technology within ASL as well as potential education and career opportunities

HS Spanish I: Students begin their introduction to high school Spanish with fundamental building blocks in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. Each unit consists of an ongoing adventure story, new vocabulary theme and grammar concepts, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, and multimedia cultural presentations covering major Spanish-speaking areas in Europe and the Americas.

HS Spanish II: High school students continue their introduction to Spanish with fundamental building blocks in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. Each unit consists of an ongoing

adventure story, new vocabulary theme and grammar concepts, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, cultural presentations covering major Spanish-speaking areas in Europe and the Americas, and assessments.

HS Spanish III: In this expanding engagement with Spanish, high school students deepen their focus on four key skills in foreign language acquisition: listening comprehension, speaking, reading, and writing. In addition, students read significant works of literature in Spanish and respond orally or in writing to these works. Continuing the pattern and building on what students encountered in the first two years, each unit consists of themed vocabulary and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, and multimedia cultural presentations covering major Spanish-speaking areas in Europe and the Americas.

HS French I: Students in high school begin their introduction to French with fundamental building blocks in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. Each unit consists of an ongoing adventure story, a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, and multimedia cultural presentations covering major French-speaking areas in Europe and across the globe.

HS French II: Students continue their introduction to French in this second-year, high school language course with review of fundamental building blocks in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. Each unit consists of an ongoing adventure story, a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, cultural presentations covering major French-speaking areas across the globe, and assessments.

HS French III: In this expanding engagement with French, high school students deepen their focus on four key skills in foreign language acquisition: listening comprehension, speaking, reading, and writing. In addition, students read significant works of literature in French and respond orally or in writing to these works. Continuing the pattern and building on what students encountered in the first two years, each unit consists of a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, and multimedia cultural presentations covering major French-speaking areas in Europe and the Americas.

Chinese I: High school students begin their introduction to Chinese with fundamental building blocks in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. Each unit consists of an ongoing adventure story, a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and

writing activities, and multimedia cultural presentations covering major Chinese-speaking countries.

HS Chinese II: Students in high school continue their introduction to Chinese in this second-year course with review of fundamental building blocks in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. Each unit consists of an ongoing adventure story, a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, and multimedia cultural presentations covering major Chinese-speaking countries.

HS German I: High school students begin their introduction to German with fundamental building blocks in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. Each unit consists of an ongoing adventure story, a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, and cultural presentations covering major German-speaking areas in Europe.

HS German II: Students continue their introduction to high school German in this second-year course with review of fundamental building blocks in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. Each unit consists of an ongoing adventure story, a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, and cultural presentations covering major German-speaking areas in Europe.

HS Latin I: High school students begin their introduction to Latin with fundamental building blocks in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. Each unit consists of a new vocabulary theme and grammar concept, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, cultural presentations covering significant aspects of Roman culture or their modern-day manifestations, and assessments.

HS Latin II: Students continue their introduction to high school Latin by continuing to cover the fundamental building blocks in four key areas of foreign language study: listening comprehension, speaking, reading, and writing. Each unit consists of a new vocabulary theme and grammar concept, a notable ancient myth in Latin, numerous interactive games reinforcing vocabulary and grammar, reading and listening comprehension activities, speaking and writing activities, cultural presentations covering significant aspects of Roman culture or their modern-day manifestations, and assessments.

Advanced Placement

Calculus AB: This college-level, yearlong course prepares students for the Advanced Placement (AP) Calculus AB Exam. Major topics of study in this full-year course include a review of pre-calculus, limits, derivatives, definite integrals, mathematical modeling of differential equations, and the applications of these concepts. Emphasis is placed on the use of technology to solve problems and draw conclusions. The course utilizes a multi-representative approach to calculus with concepts and problems expressed numerically, graphically, verbally, and analytically.

English Language & Composition: This college-level course prepares students for the AP® English Language and Composition Exam while exploring and analyzing a variety of rhetorical contexts. This is a fast-paced, upper-level course designed for highly motivated students. Multiple opportunities are provided to enhance test-taking skills through critical reading, writing, classroom assignments, and discussion activities. AP English Language and Composition practice assessments and essays will be given throughout the course as well. This course provides students an opportunity to increase knowledge concerning prose of many styles and genres, including essays, journalistic writing, political writing, science writing, nature writing, autobiographies/biographies, diaries, speeches, history writing, and critical writing. Throughout the course, there is an intense focus on writing and revising expository, analytical, and argumentative essays to prepare students for a broad range of writing purposes.

English Literature & Composition: English Literature and Composition is designed to be a college/ university-level course. This course equips students to critically analyze all forms of literature in order to comment insightfully about an author's or genre's use of style or literary device. Students will also interpret meaning based on form; examine the trademark characteristics of literary genres and periods; and critique literary works through expository, analytical, and argumentative essays. As students consider styles and devices, they will apply them to their creative writing. In addition to exposing students to college-level English coursework, this course prepares them for the AP® English Literature and Composition Exam.

Environmental Science: Environmental Science is a laboratory- and field-based course designed to provide students with the content and skills needed to understand the various interrelationships in the natural world, to identify and analyze environmental problems, and to propose and examine solutions to these problems. Since this is an online course, the laboratory- and field-based activities will be completed virtually and via experiments that students can easily perform at home with common materials. The course is intended to be equivalent to a one-semester, college-level ecology course, which is taught over a full year in high school. The course encompasses human population dynamics, interrelationships in nature, energy flow, resources, environmental quality, human impact on environmental systems, and environmental law.

French Language & Culture: French Language and Culture is an advanced language course in which students acquire proficiencies that expand their cognitive, analytical, and communicative skills. The course prepares students for the AP® French Language and Culture Exam. It uses as its foundation the three modes of communication

(interpersonal, interpretive, and presentational) as defined in the Standards for Foreign Language Learning in the Twenty-First Century. The course is designed as an immersion experience requiring the use of French exclusively. The online learning coach only uses French to communicate with students. In addition, all the reading, listening, speaking, and writing is in French. The course teaches language structures in context and focuses on the development of fluency to convey meaning. Students explore culture in both contemporary and historical contexts to develop an awareness and appreciation of cultural products, practices, and perspectives. The course contains a forum where students share their opinions and comments about various topics and comment on other students' posts. The course makes great use of the Internet for updated and current material.

Human Geography: Human Geography is a college-level course designed to prepare students for the AP® Human Geography Exam. The goal of the course is to provide students with a geographic perspective through which to view the world. Through a combination of direct instruction, documentary videos, and online readings, students will explore geographic concepts, theories, and models; human- environment interactions; and interactions among human systems. Topics covered include population, culture, political organization of space, agricultural land use, industrialization, and urban land use. Students will demonstrate their understanding and acquisition of skills through essays, document-based questions, student collaborative activities, and practice AP exams.

Psychology: Psychology will introduce students to the systematic study of the behavior and mental processes of human means and animals. Students are exposed to the psychological facts, principles, and phenomena associated with the major fields within psychology. Students also learn about the methods psychologists use in their science and practice. The major aim of this course is

Spanish Language & Culture: Spanish Language and Culture is an advanced language course in which students acquire proficiencies that expand their cognitive, analytical, and communication skills. The course prepares students for the AP® Spanish Language and Culture Exam. It uses as its foundation the three modes of communication (interpersonal, interpretive, and presentational) as defined in the Standards for Foreign Language Learning in the Twenty-First Century. The course is designed as an immersion experience and is conducted almost exclusively in Spanish. In addition, all student work, practices, projects, participation, and assessments are in Spanish. The course teaches language structures in context and focuses on the development of fluency to convey meaning. Students explore culture in both contemporary and historical contexts to develop an awareness and appreciation of cultural products, practices, and perspectives. In addition, students participate in a forum where they are able to share their opinions and comments about various topics and comment on other students' posts. The course also makes great use of the Internet for updated and current material.

U.S. Government & Politics: This one-semester college-level course is designed to prepare students for the AP United States Government and Politics exam. Students will study the Constitutional underpinnings and structure of the United States government, issues of politics and political parties, and topics in civil rights and public policy, demonstrating their understanding and acquisition of skills through written work, project-based activities, and practice exams.

U.S. History: This course surveys the history of the United States from the settlement of the New World to modern times and prepares students for the AP® United States History Exam. The course emphasizes themes such as national identity, economic transformation, immigration, politics, international relations, geography, and social and cultural change. Students learn to assess historical materials, weigh the evidence and interpretations presented in historical scholarship, and analyze and express historical understanding in writing.

World History: This advanced study of world history combines historical thinking skills with the in-depth exploration of major course themes such as the interaction between humans and the environment; development and interaction of cultures; state-building, expansion, and interaction of economic systems; and more. Students engage in reading, writing, and discussion as they trace history from before the Common Era to the present.

Electives, Career Electives, and Career Pathways

Middle School Exploring Music- Michigan (eDyn): Learn about how we hear music, its history and culture, and how it affects our lives. Explore the elements of music, such as rhythm, pitch, and harmony, while discovering more about musical genres, singing and your voice, instruments, and musical composition. Tune up your understanding and appreciation for all things musical.

Middle School Journalism: Tell your story: Who? What? When? Where? Journalism provides us with the answers to these questions for the events that affect our lives. In this course, students will learn how to gather information, organize ideas, format stories for different forms of news media, and edit their stories for publication. The course will also examine the historical development of journalism and the role of journalism in society.

MIDDLE SCHOOL PHOTOGRAPHY: DRAWING WITH LIGHT: Students see photographs every day on television, on the Internet, and in magazines and newspapers. What makes a great photograph? How did the artist capture a story? What makes a great picture? What are careers in photography? In this course, students learn and apply fundamental skills to use a camera and take photographs of animals, people, and landscapes. Students gain an understanding of how photography can be a means of documentation or high art. Students examine photographic careers and explore self-reflection to progress their creative growth as they develop a photographic portfolio. This course helps students select subjects, take a photograph, and print and display Memories!

MIDDLE SCHOOL CODING: In this course, students will learn all about the technology they use in their day-to-day life as well as explore how the internet functions. The course includes an introduction to the basics of computer science as students discover how to create and build websites using HTML and CSS. They will also become familiar with programming languages like JavaScript and Python. Students will leave the course with a portfolio of work that will showcase their skills.

MIDDLE SCHOOL 2D STUDIO ART: Journey inside the art studio and learn to bring your 2D art visions to life. Whatever medium you prefer, painting or drawing, this course will help you hone your 2D art skills. Learn the elements and principles needed to logistically create art; explore your artistic inspirations; view art from different ages and cultures; gain insight about the art of critiquing.

MIDDLE SCHOOL DIGITAL ART AND DESIGN: Digital art and design involves everything from advertising to animation to photography and more. In this course, you'll learn about the evolution of art; the basic principles of art and design; the role of art in politics and society; and how to create digital art and make it come alive.

Art History I: Introducing art within historical, social, geographical, political, and religious contexts for understanding art and architecture through the ages, this course offers high school students an in-depth overview of art throughout history, with lessons organized by chronological and historical order and world regions. Students enrolled in this one-semester course cover topics including early medieval and Romanesque art; art in the twelfth, thirteenth, and fourteenth centuries; fifteenth-century art in Europe; sixteenth-century art in Italy; the master artists; High Renaissance and baroque art; world art, which includes the art of Asia, Africa, the Americas, and the Pacific cultures; eighteenth-and nineteenth-century art in Europe and the Americas; and modern art in Europe and the Americas.

Health and Physical Education Bundle: This bundle includes three courses.

Foundations of Personal Wellness is a full-year offering that combines health and fitness instruction. Two separate semester-long courses are also included: Healthy Living, which focuses exclusively on personal health but in a more conservative and traditional treatment than Contemporary Health, and Lifetime Fitness, which is a one-semester physical education course.

Nutrition and Wellness: This comprehensive health course provides students with essential knowledge and decision-making skills for a healthy lifestyle. Students analyze aspects of emotional, social, and physical health and how these realms of health influence each other. Students apply principles of health and wellness to their own lives. In addition, they study behavior change and set health goals to work on throughout the semester. Additional topics of study include healthy relationships, reproductive health, disease transmission, substance abuse, safety and injury prevention, environmental health, and consumer health.

Intro to Art: Covering art appreciation and the beginning of art history, this course encourages students to gain an understanding and appreciation of art in their everyday lives. Presented in an engaging format, this one-semester course provides an overview of many introductory themes: the definition of art, the cultural purpose of art, visual elements of art, terminology and principles of design, and two- and three-dimensional media and techniques. Tracing the history of art, high school students enrolled in the

course also explore the following time periods and places: prehistoric art, art in ancient civilizations, and world art before 1400.

Online Learning & Digital Citizenship: This one-semester course provides students with a comprehensive introduction to online learning, including how to work independently, stay safe, and develop effective study habits in virtual learning environments. Featuring direct-instruction videos, interactive tasks, authentic projects, and rigorous assessments, the course prepares students for high school by providing in- depth instruction and practice in important study skills such as time management, effective note-taking, test preparation, and collaborating effectively online. By the end of the course, students will understand what it takes to be successful online learners and responsible digital citizens.

Psychology: This two-semester course introduces high school students to the study of psychology and helps them master fundamental concepts in research, theory, and human behavior. Students analyze human growth, learning, personality, and behavior from the perspective of major theories within psychology, including the biological, psychosocial, and cognitive perspectives. From a psychological point of view, students investigate the nature of being human as they build a comprehensive understanding of traditional psychological concepts and contemporary perspectives in the field. Course components include an introduction to the history, perspectives, and research of psychology; an understanding of topics such as the biological aspects of psychology, learning, and cognitive development; the stages of human development; aspects of personality and intelligence; the classification and treatment of psychological disorders; and psychological aspects of social interactions.

Sociology: Providing insight into the human dynamics of our diverse society, this is an engaging, one-semester course that delves into the fundamental concepts of sociology. This interactive course, designed for high school students, covers cultural diversity and conformity, basic structures of society, individuals and socialization, stages of human development as they relate to sociology, deviance from social norms, social stratification, racial and ethnic interactions, gender roles, family structure, economic and political aspects of sociology, the sociology of public institutions, and collective human behavior, both historically and in modern times.

3D Art I – Modeling: This course focuses on the fundamental concepts of 3D modeling and explores the basic concepts and skills of 3D animation. Students learn Blender® software to create 3D models such as a house, a creature, an animation of the creature walking, and a landscape terrain. Activities include using points on a grid to create mountains and using a color gradient to create a sun and a moon. Students learn 3D space and 3D objects; creating, scaling, and rotating objects; materials and textures; poses and key frames; extruding and mirroring 3D objects; rendering animations; and appending materials, textures, objects, armatures, and animations.

3D Art II – Animation: This course focuses on building animation skills including realistic movement and lighting. Students learn the Blender® software workspace and tools; location and rotation properties; scripts; IP curves; vector handles; rendering and baking animations and simulations; and particle systems and emitters. Activities and projects promote key 3D animation concepts including frames and key frames, squash and stretch, action strips, walk cycles and poses, and trajectories. Students develop the

skills needed to design and create animations with an understanding of the skills needed to succeed as professional animators. (Prerequisite: 3D Art I – Modeling).

Career Explorations: This course prepares middle school students to make informed decisions about their future academic and occupational goals. Through direct instruction, interactive skill demonstrations, and practice assignments, students learn how to assess their own skills and interests, explore industry clusters and pathways, and develop plans for career and academic development. This course is designed to provide flexibility for students; any number of units can be selected to comprise a course that meets the specific needs of students.

Career Planning and Development: Introducing high school students to the working world, this course provides the knowledge and insight necessary to compete in today's challenging job market. This relevant and timely course helps students investigate careers as they apply to personal interests and abilities, develop the skills and job search documents needed to enter the workforce, explore the rights of workers and traits of effective employees, and address the importance of professionalism and responsibility as careers change and evolve. This one-semester course includes lessons in which students create a self-assessment profile, a cover letter, and a résumé that can be used in their educational or career portfolio.

Computer Applications- Office® 2010: This full-year course introduces students to the features and functionality of the most widely used productivity software in the world: Microsoft® Office®. Through video instruction, interactive skill demonstrations, and numerous hands-on practice assignments, students learn to develop, edit and share Office 2010 documents for both personal and professional use. By the end of this course, students will have developed basic proficiency in the most common tools and features of the Microsoft Office 2010 suite of applications: Word®, Excel®, PowerPoint®, and Outlook®.

Computer Science: This one-semester course introduces students to the basics of computer science through a series of Python® programming projects that encourage creativity and experimentation. Students create a diverse portfolio of projects as they learn commands and functions, values and variables, graphical user interface, modular and object-oriented programming, and events and event-driven processes. Students also learn loops, debugging techniques, software- development processes, arrays and sets, generators and namespaces, packages and libraries, randomness, file handling, and how to program simple games. Students explore careers in programming, including profiles from a wide variety of programming professionals.

Digital Arts: Digital Arts focuses on building a solid foundation of the elements of art and design: line, shape, form, color, value, space, and texture. Topics include learning processes for evaluating artworks and identifying selected artists' works, styles, and historical periods. Students learn 3D space in a 2D environment; filters, gradients, and highlights; and methods of working with color. By the end of this course, students will have created a unique portfolio of digital artwork, including repeating images to be used as a computer's desktop background, a logo with text, two images scaled proportionally to one another, and a poster image and layout. Students advance their skills using Inkscape, a free open-source alternative to Adobe® Illustrator®, and also learn new tools such as the Spiral, Bezier, and Paint Bucket Tools.

Engineering Design: Engineering Design introduces students to computer-aided design, including the creation of geometric forms, interpreting 2D and 3D drawings of objects, and editing isometric and perspective drawings in a professional CAD environment. Students learn the steps of the design process by modeling and building paper towers, bridges, or platforms. Projects include orthographic projections of 3D objects, isometric drawings, designing a 3D container, and applying math and geometry skills to models and engineering processes. Students produce drawings to meet design specifications, create oblique and perspective CAD drawings, edit drawings in a 3D CAD environment, and apply reverse engineering to an object to explore its parts, aesthetics, and manufacturing process. Students also learn Creo™ Elements/Direct™, a 3D CAD modeling program used by professional engineers.

Intro to Entrepreneurship: This one-semester course teaches the key skills and concepts students need to know to plan and launch a business. Students learn about real-life teen entrepreneurs; characteristics of successful entrepreneurs; how to attract investors and manage expenses; sales stages, planning, and budgeting; how to generate business ideas and create a business plan; and how to promote and market a company. Topics include exploring factors of business success and failure, economic systems, competition, production, costs and pricing, accounting, bookkeeping and financial reporting, working with others, and successfully managing employees.

Personal Finance: This introductory finance course teaches what it takes to understand the world of finance and make informed decisions about managing finances. Students learn more about economics and become more confident in setting and researching financial goals as they develop the core skills needed to be successful. In this one-semester course, students learn how to open bank accounts, invest money, apply for loans, apply for insurance, explore careers, manage business finances, make decisions about major purchases, and more. Students will be inspired by stories from finance professionals and individuals who have reached their financial goals.

Projects in Audio Engineering: This introductory, supplemental course teaches the four main steps of professional audio engineering: recording, editing, mixing, and mastering. Through a series of Audacity® software projects, students learn tones and waveforms, recording studios and formats, Musical Instrument Digital Interface (MIDI) and Digital Audio Workstations (DAWs), syncing audio, and many other topics relating to the field of audio engineering. Activities include echo and reverb effects; encoding and exporting audio; mastering audio files and mixing samples to create a new track; equalizing, compressing, and normalizing audio files; and adding fading and crossfading.

Projects in Game Design: Utilizing the Multimedia Fusion 2 software program, this supplemental course allows students to build a solid foundation in the fundamentals of game design and development. Students create an impressive portfolio of interactive, engaging games such as a classic two-player Ping-Pong game, a block-breaking action game, and a maze game with moving obstacles. Students learn the MMF2 language of events, conditions, and actions; game objects that track scores, lives, time, and more; and automated, random, and user-controlled movement. Topics include libraries, game sounds, and game-design concepts including objects, layers and frames, cursors and crosshairs, pixels and coordinates, calculations, title and end screens, and looping animations.

Health Science Concepts: This yearlong course introduces high school students to the fundamental concepts of anatomy and physiology—including the organization of the body, cellular functions, and the chemistry of life. As they progress through each unit, students learn about the major body systems, common diseases and disorders, and the career specialties associated with each system. Students investigate basic medical terminology as well as human reproduction and development. Students are introduced to these fundamental health science concepts through direct instruction, interactive tasks, and practice assignments. This course is intended to provide students with a strong base of core knowledge and skills that can be used in a variety of health science career pathways.

Introduction to Business: In this two-semester introductory course, students learn the principles of business using real-world examples—learning what it takes to plan and launch a product or service in today’s fast-paced business environment. This course covers an introduction to economics, costs and profit, and different business types. Students are introduced to techniques for managing money, personally and as a business, and taxes and credit; the basics of financing a business; how a business relates to society both locally and globally; how to identify a business opportunity; and techniques for planning, executing, and marketing a business to respond to that opportunity.

Introduction to Health Sciences: This high school course introduces students to a variety of healthcare careers, as they develop the basic skills required in all health and medical sciences. In addition to learning the key elements of the U.S. healthcare system, students learn terminology, anatomy and physiology, pathologies, diagnostic and clinical procedures, therapeutic interventions, and the fundamentals of medical emergency care. Throughout the course, instructional activities emphasize safety, professionalism, accountability, and efficiency for workers within the healthcare field.

Introduction to Information Technology: This course introduces students to the essential technical and professional skills required in the field of Information Technology (IT). Through hands-on projects and written assignments, students gain an understanding of the operation of computers, computer networks, Internet fundamentals, programming, and computer support. Students also learn about the social impact of technological change and the ethical issues related to technology. Throughout the course, instructional activities emphasize safety, professionalism, accountability, and efficiency for workers within the field of IT.

Medical Terminology: This semester-long course introduces students to the structure of medical terms, plus medical abbreviations and acronyms. The course allows students to achieve comprehension of medical vocabulary appropriate to health care settings, medical procedures, pharmacology, human anatomy and physiology, and pathology. The knowledge and skills gained in this course provide students entering the healthcare field with a deeper understanding of the application of the language of health and medicine. Students are introduced to these skills through direct instruction, interactive tasks, practice assignments, and unit-level assessments.

Business Ethics: Sometimes choices between right and wrong are obvious. But what happens when you’re faced with a situation that’s not so clear-cut? In this course,

students will learn to anticipate and address ethical dilemmas that come up in a business setting. They will examine how humans have understood ethics over the years and what matters most in the business world today. Students will investigate actual scenarios and apply all they've learned to addressing these complicated ethical dilemmas. By the end, students will have developed their ability to work through challenging situations using their own moral imagination. Students will also have a variety of role models, lessons learned from ethical scandals, and ethical skills to draw upon when they face these challenges in real life

Microsoft® Office® Specialist: This two-semester course introduces students to the features and functionality of Microsoft® Office® 2010 while preparing them for the beginning, intermediate, and advanced levels of the Microsoft User Specialist (MOS) certification program. Through video instruction, interactive skills demonstrations, practice assignments, and unit-level assessments, students become proficient in Microsoft Word®, Excel®, PowerPoint®, Outlook®, and Access®. By the end of the course, students are prepared to demonstrate their skills by obtaining one or more MOS certifications.

Nursing Assistant: This two-semester course prepares students to provide and assist with all aspects of activities of daily living and medical care for the adult patient in hospital, long-term care, and home settings. Through direct instruction, interactive skills demonstrations, and practice assignments, students are taught the basics of nurse assisting, including interpersonal skills, medical terminology and procedures, legal and ethical responsibilities, safe and efficient work, gerontology, nutrition, emergency skills, and employability skills. Successful completion of this course from an approved program prepares the student for state certification for employment as a Certified Nursing Assistant (CNA).

Criminology: The first criminal justice course in the criminal justice program course sequence. The intent of the course is to introduce students to the three major components of the criminal justice system including law enforcement, corrections, and the courts. CJ 101: Introduction to Criminal Justice. This course is an introduction to the history, philosophy, concepts and problems of law enforcement. A survey is made of the various fields of law enforcement and corrections in the United States. Professional career opportunities are reviewed.

Pharmacy Technician: This two-semester course prepares students for employment as a Certified Pharmacy Technician (CPhT) and covers the skills needed for the pharmacy technician field. Through direct instruction, interactive skills demonstrations, and practice assignments, students learn the basics of pharmacy assisting, including various pharmacy calculations and measurements, pharmacy law, pharmacology, medical terminology and abbreviations, medicinal drugs, sterile techniques, USP 795 and 797 standards, maintenance of inventory, patient record systems, data processing automation in the pharmacy, and employability skills. Successful completion of this course prepares the student for national certification for employment as a CPhT.

EDP Career Cruising: This two-semester course is a self-exploration and planning program that helps people of all ages achieve their potential in school, career and life. All students in the state of Michigan are required to complete an Educational Developmental Plan. Students learn about themselves, their interests, skills, preferences and aspirations so they can explore the opportunities right for them.

Study Skills: This course allows students the valuable time to reach out for help and extra information for their courses. This time is designed to assist students learning, understand, and reinforce concepts and/or assignments presented in the general curriculum. Students can reach out to their tutors, schedules one-on-one time with their teachers, or communicate with their mentors.

Oceanography: This is semester one of a two-semester course in Oceanography. Students receive an introduction to oceanography including the history of marine science, a discussion of the origin of life (including the Big Bang Theory) and its connection to the ocean, an exploration of the energy of life, and an introduction to ocean life including simple life, invertebrates, and vertebrates. Students explore these topics through a variety of content including an etextbook, videos, and interactives. Each lesson includes a quiz or assignment and each unit culminates in a unit project and unit test. Through the lesson assignments and unit projects, students will demonstrate their knowledge in a variety of ways including presentations, creative projects, hands-on activities, writing and more.

Veterinary Science: The Care of Animals: As animals play an increasingly important role in our lives, scientists have sought to learn more about their health and well being. Taking a look at the pets that live on our homes, on our farms, and in zoos and wildlife sanctuaries, this course will examine some of the common diseases and treatments for domestic animals. Toxins, parasites, and infectious diseases impact not only the animals around us, but at times, we humans as well! Through veterinary medicine and science, the prevention and treatment of diseases and health issues is studied and applied.

Elementary K-5 Courses

Language Arts

LANGUAGE ARTS KA AND B

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

LANGUAGE ARTS 1A AND B

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

LANGUAGE ARTS 2A AND 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.

LANGUAGE ARTS 3A AND B

This Third Grade Language Arts course will teach students reading comprehension skills, fluency, and strategies for a variety of texts including informational text 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. Students will work through the writing process to formulate and write a variety of pieces (opinion, compare/contrast, narrative.) All Common Core Third Grade LA standards are met in this course.

LANGUAGE ARTS 4A AND 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. **Semester B:** Students also learn how to participate in collaborative discussion and peer review sessions. In each lesson, engaging and relevant models and step-by-step instruction guide students toward mastery and appreciation of 21st century communication in all its forms and functions.

Semester B: Like semester A, semester B provides an integrated curriculum. Whereas the first semester focuses on skills needed to read fiction and other literary prose, semester B teaches specific skills for reading poetry, drama, informational text. 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.

LANGUAGE ARTS 5A AND 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 B: Like semester A, semester B provides an integrated curriculum. Whereas the first semester focuses on skills needed for literary text, semester B focuses on skills for reading and analyzing informational text. In the second semester of the course, students learn how various forms of information text differ. 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.

Mathematics

-
-

MATH KA AND 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 off line. A special emphasis this semester is for students to have fun with numbers, finding success with concepts such as bigger and smaller and being comfortable in an online environment.

Semester B: Students 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.

MATH 1A AND 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 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.

MATH 2A AND 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 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.

MATH 3A AND BA

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 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.

MATH 4A AND 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 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, 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.

MATH 5A AND B

Semester A: Grade 5 math uses a varied amount of instructional material to reinforce and teach new math skills to the 4th grade learners. Instruction includes creative videos, mathematical storytelling, practical math applications and repetition to reinforce skills throughout the course. Three areas are focused on and students will finish the course with a strong knowledge in these content areas. The first is developing an understanding and fluency with multi-digit multiplication and developing the understanding of dividing to find quotients involving multi-digit dividends. The second is developing an understanding of fraction equivalence, addition and subtraction of fractions with like denominators, and multiplication of fractions with whole numbers. The third will be addressed in semester B.

Semester B: 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.

Science

-

SCIENCE KA AND 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 varying concepts. Students will explore the changes of fall through stories and observations learning about changing leaves and squirrels. Using their senses, students will observe the nature around them. Concepts like camouflage and weather conditions will also be discussed. Students will have the opportunity to grow plants, make a terrarium and observe the behavior of 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 varying concepts. Students will explore the winter season by learning about animal tracks and the night sky. The properties of matter will also be introduced. To learn about spring, students will make leaf rubbings, grow a variety of plants and search for worms to study. The semester concludes with lessons and activities focused on bees, constellations and birds.

SCIENCE 1A AND B

Semester A: 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. Students will learn about the phases

of the moon and the seasons. Students will also explore a variety

of topics about animals including, animal tracks, hibernation, and animal adaptations.

Semester B: 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. Students will learn the steps of scientific inquiry through scientific experiments. Students will continue to explore the natural world learning about ponds and forests.

SCIENCE 2A AND 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 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.

SCIENCE 3A AND 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 it's patterns, various types of terrain, and the role of plants in the production of oxygen and their importance to human survival. Learners will expand their knowledge through video, pictures, short readings, projects, and hands on experiments. Learners will understand that experiments require the use of instruments, observation, recording, and drawing evidence based conclusions. Grade 3 science provides students with the opportunity to expand their minds and see for themselves the way that science is a part of their everyday lives.

Semester B: 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 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.

SCIENCE 4A AND 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 fresh water, and fast and slow changes that occur on the planet. Students go beyond planet earth, though, as they study galaxies, the solar system and other planets. Students examine the ways that forces, and motion can be measured and the concept that a single kind of matter can exist as a solid, liquid or gas. Grade 4 science uses many modes of instruction including video presentations, enrichment activities, and hands-on experimentation.

Semester B: 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.

SCIENCE 5A AND 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 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.

Social Studies

SOCIAL STUDIES KA AND 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 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 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.

SOCIAL STUDIES 1A AND B

Semester A: In this semester, students begin to explore 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 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.

SOCIAL STUDIES 2A AND B

Semester A: In second grade, students in this course will begin

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

Semester B: The second semester begins by introducing learners to economics and the role that money plays in every civilization. They will take a closer look at the economy of the Celtic people. Students learn the difference between natural, human, and capital resources. Learners will begin to understand the exchange of money for goods and services. They will gain a basic understanding of what scarcity is and why it is

good that we do not always get everything that we want. Students will understand these concepts by drawing upon their understanding of the desires/wishes in their own lives. Students will also learn about desirable human qualities using 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. Learners will follow a step-by-step approach for successfully completing each lesson, which includes storytelling, repetition, projects, arts and crafts, and videos.

SOCIAL STUDIES 3A AND B

Semester A: In third grade, social studies students will begin to explore the 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 which have impacted ancient civilizations, Native American tribes and the development of the United States. Students will increase their skills by creating maps and looking at the landscapes. They

will take a close look at their own personal heritage by mapping their ancestry. Learners will follow a step-by-step approach for successfully completing each lesson, which includes storytelling, repetition, projects, arts and crafts, and videos.

Semester B: The second semester begins with introducing learners to economics and the role that money plays in every civilization. Students learn the difference between natural, human, and capital resources. They also examine the production of goods, trade, specialization, and interdependence, and come to understand the importance that each individual play 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.

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

Semester B: Semester B of grade 4 Social Studies picks up where semester A left off by looking further into frontier life of the early American settlers. Students examine the difficulties that early settlers faced when reaching America. They apply knowledge of historical thinking, chronology, turning points, individuals, and themes of local and United States history in order to understand how history has shaped the present and will shape the future. They will continue the focus of local history by doing research projects on settlers from their 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 states.

SOCIAL STUDIES 5A AND 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 using video, journaling, and varied types of creative instruction.

Semester B: Semester B begins with an exploration of the west and what life was like for those looking to find gold. Learners will then look at slavery and what led to the Civil War. The course then takes a departure from American history and takes a more in-depth look into cultures, people, and the geography of the United States from past to present. Learners will have the opportunity to explore the country region by region and come to appreciate all that it has to offer. Students will conclude the course by planning and describing a trip they would like to take to a 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.

Electives

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.

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 though out 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.

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.

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.

ARTS AND CRAFTS GRADE KA AND 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. An 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 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.

ARTS AND CRAFTS GRADE 1A AND 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 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 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.

ARTS AND CRAFTS GRADE 2A AND B

Semester A: This course provides an opportunity for self-discipline through instruction and cooperation while providing the student with an opportunity for self-expression by using imaginative thinking for creative solutions. Learners will begin the course by creating a color wheel and understanding the difference between primary, secondary, and complimentary colors. Learners will use watercolors to create a value chart and begin to understand symmetry in art. At the end of the semester students will work with clay and create a Memorial Clay.

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 a 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.

KEYBOARDING

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. Students are introduced to the keys through lessons and then given the opportunity to practice in typing games. 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.

RECORDERS LEVEL 1

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

SCRATCH CODING

Scratch is a program, developed by MIT, that teaches student

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.

Physical Education and Health

PHYSICAL EDUCATION KA AND B

Semester A: Elementary PE K 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 B: Elementary PE K 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.

PHYSICAL EDUCATION 1A AND B

Semester A: Elementary PE 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 B: Elementary PE 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.

PHYSICAL EDUCATION 2A AND B

Semester A: Elementary PE 2 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 B: Elementary PE 2 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.

PHYSICAL EDUCATION 3A AND B

Semester A: Elementary PE 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 B: Elementary PE 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.

PHYSICAL EDUCATION 4A AND B

Semester A: Elementary PE 4 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 B: Elementary PE 4 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.

PHYSICAL EDUCATION 5A AND B

Semester A: Elementary PE 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 B: Elementary PE 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.

HEALTH KA AND B

Semester A: Elementary Health K 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 B: Elementary Health K 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.

HEALTH 1A AND B

Semester A: Elementary Health 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 B: Elementary Health 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.

HEALTH 2A AND B

Semester A: Elementary Health 2 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 B: Elementary Health 2 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.

HEALTH 3A AND B

Semester A: Elementary Health 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 B: Elementary Health 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.

HEALTH 4A AND B

Semester A: Elementary Health 4 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.

Semester B: Elementary Health 4 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, the human body, and the functions of body systems.

HEALTH 5A AND B

Semester A: Elementary Health 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.

Semester B: Elementary Health 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. In addition, this course covers the reproductive system, puberty and STDs.