Missouri Course Access and Virtual School Program (MOCAP)
Missouri Connections Academy-Sturgeon R-V School District
Course Descriptions - With Instruction

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ELEMENTARY SCHOOL

KINDERGARTEN

ART K

In the Art K course, students will explore color, line, and shape. A combination of interactive and hands-on studio projects encourages the student to create art, sharpen fine motor skills, and explore areas of interest in art. Artistic modes include drawing, painting, assembling, and sculpting.

EXPERIENCING MUSIC I

The Experiencing Music I courses is designed for students in grades K–2, this course explores differences between music and everyday sounds, and also how the body hears and responds to music. Aligning to the National Core Arts Standards, the course introduces skills that assist the student in making music individually and with another person. The student will identify instrument characteristics and sounds and begin to consider the way music of the student's own culture might sound different to a person from another culture. With audio, visual, and interactive technologies, this course provides a unique and advanced learning experience.

LANGUAGE ARTS K

In Language Arts K A, students will learn, practice, and apply the fundamental skills and strategies that will provide the foundation to grow into a strong, fluent reader, writer, and communicator. Reading, writing, and language instruction are presented in close alignment with the Common Core State Standards (CCSS). Early in the semester students review the names of the letters of the alphabet. Daily instruction in phonics and spelling as well as high frequency words serves as a building block that enables the student to emerge as a reader. Core reading instruction gives the student the opportunity to listen to, read together, and read independently texts in a variety of literary and nonfiction genres. The instruction is presented in a Peer Model mode, in which the student views a video of a peer learning how to use and apply the target core reading skill. The focus of core reading instruction is to develop the ability to comprehend and analyze texts. Instruction in the mechanics of writing serves as a building block that allows the student to emerge as a writer. Writing instruction guides the student through the process of dictating and writing narrative and informational texts. Speaking and Listening instruction is presented in a 21st Century mode, in which the student gains proficiency in the skills, knowledge, and expertise they must master to succeed in life and eventually the workplace. Together, the course elements ensure that the student grows as a reader, writer, and communicator.

In Language Arts K B, students will learn, practice, and apply the fundamental skills and strategies that will provide the foundation to grow into a strong, fluent reader, writer, and communicator. Reading, writing, and language instruction are presented in close

alignment with the Common Core State Standards (CCSS). Daily instruction in phonics and spelling as well as high frequency words serves as a building block that enables the student to emerge as a reader. Core reading instruction gives the student the opportunity to listen to, read together, and read independently texts in a variety of literary and nonfiction genres. The instruction is presented in a Peer Model mode, in which the student views a video of a peer learning how to use and apply the target core reading skill. The focus of core reading instruction is to develop the ability to comprehend and analyze texts. Instruction in the mechanics of writing serves as a building block that allows the student to emerge as a writer. Writing instruction guides the student through the process of dictating and writing narrative and informational texts. Speaking and Listening instruction is presented in a 21st Century mode, in which the student gains proficiency in the skills, knowledge, and expertise they must master to succeed in life and eventually the workplace. Together, the course elements ensure that the student grows as a reader, writer, and communicator.

MATH K

In the Math K course, mathematical thinking and problem solving are introduced. Students explore topics and apply mathematical practices outlined in the Common Core State Standards and other state standards. The first few units focus on counting and sorting. Then, lessons introduce addition and subtraction. Throughout the course, students engage in hands on and online activities to master basic skills.

PHYSICAL EDUCATION K

The Physical Education K course encourages students to develop their fine motor skills, movement, and confidence to enjoy healthy physical activity regularly. A combination of interactive and hands-on activities teaches students essential skills. Students learn how to respect themselves and others while playing.

SCIENCE K

In the Science K course, students will explore the nature of science and how to solve problems, as well as investigate living and nonliving things. The student will learn how to study the surrounding world by observing, collaborating, and sharing with others. Using illustrations and labels, the student will identify the steps used to solve problems and use these steps to plan, design, and test a solution to a problem. Finally, the student will examine, describe, compare, and analyze the characteristics of living and nonliving things in order to complete portfolio assessments.

SOCIAL STUDIES K

In the Social Studies K course, students learn the concepts of community, nation, and world in this course. They answer essential questions including: "How do people get what they need?"; "How is culture shared?"; and "How does life change throughout history?" A combination of interactive and hands-on exercises teaches students about personal responsibility, good citizenship, and basic geography. While learning about America’s past and important historical figures, students research their personal history and heroes.

GRADE 1

ART 1

In the Art 1 course, students will develop and use skills in art, building on their knowledge about line, shape, and color. Your student will be introduced to other elements of art as well as to the principles of design. This course will enable your student to develop his creative side through the introduction of art media and the exploration of art themes. The activities in this course include practicing drawing, learning about color, creating designs using balance and patterns, and working with three dimensional forms.

EXPERIENCING MUSIC II

The Experiencing Music II course is designed for students in grades K–2, this course introduces basic components of music: melody and rhythm. Aligning to the National Core Arts Standards, the course teaches the student to explore an individual voice by creating beats and rhythms. In addition, the student will use critical listening skills to analyze music while participating in interactive experiences. With audio, visual, and interactive technologies, this course provides a unique and advanced learning experience.

LANGUAGE ARTS 1

In Language Arts 1 A, students will learn, practice, and apply the fundamental skills and strategies that will help them grow into a strong, fluent reader and writer. Reading, writing, and language instruction are presented in close alignment with the Common Core State Standards (CCSS). Daily core reading instruction gives the student the opportunity to read texts in a variety of literary and nonfiction genres at levels that match their individual ability. Instruction is presented in two modes: Peer Model, in which the student views a video of a peer learning how to use and apply the target skill, and 21st Century, in which the student gains proficiency in the skills, knowledge, and expertise they must master to succeed in work and life. Throughout the core reading block, engaging and thought-provoking activities allow the student to master a variety of related disciplines, including fluency, vocabulary, and speaking and listening. The focus on reading is supplemented with instruction in phonics, handwriting, grammar, and reading foundations—skill areas vital to a burgeoning reader's development. The course also provides the student with a thorough understanding of the writing process, from planning to drafting to revision, editing, and publishing, and includes instruction in developing an information text and a narrative text. Together, the course elements ensure that the student grows as a reader, writer, and communicator.

In Language Arts 1 B, students will learn, practice, and apply the fundamental skills and strategies that will help them grow into a strong, fluent reader and writer. Reading, writing, and language instruction are presented in close alignment with the Common Core State Standards (CCSS). Daily core reading instruction gives the student the opportunity to read texts in a variety of literary and nonfiction genres at levels that match their individual ability. Instruction is presented in two modes: Peer Model, in which the student views a video of a peer learning how to use and apply the target skill, and 21st Century, in which the student gains proficiency in the skills, knowledge, and expertise they must master to succeed in work and life. Throughout the core reading block, engaging and thought-provoking activities allow the student to master a variety of related disciplines, including fluency, vocabulary, and speaking and listening. The focus on reading is supplemented with instruction in phonics, handwriting, grammar, and reading foundations—skill areas vital to a burgeoning reader's development. The course also provides the student with a thorough understanding of the writing process, from planning to drafting to revision, editing, and publishing, and includes instruction in developing an opinion text and a how-to book. Together, the course elements ensure that the student grows as a reader, writer, and communicator.

MATH 1

In Math 1, students will learn mathematical concepts related to addition and subtraction, measuring lengths, time, and representing and interpreting data. Concepts are developed using mathematical processes of problem- solving, reasoning, communicating, representing, and making connections. Building both conceptual knowledge and procedural fluency supports the student's development of mathematical thinking and reasoning in solving various problems of authentic contexts.

PHYSICAL EDUCATION 1

In Physical Education 1 students will learn a new game or activity each week. There will be games and activities that may be played inside, while others will be better suited for outdoor play. The games and activities in this course are grouped in thematic units. In

each lesson, the student will find a brief description of that week's game. Each week a new game will be added, but the previous lessons' games will still be listed for the student to see. In addition to the activities described in the lessons, students will also have the option of participating in yoga or an individual or team sport.

SCIENCE 1

Throughout the Science 1 course, students will discover the wonders of science through hands-on experiences, virtual labs, and interactive activities. Students will develop science inquiry skills such as planning and conducting investigations, organizing, and analyzing data, and drawing conclusions. Particular emphasis will be on making observations. Included in the course are the student's first experiences with the engineering design process. The student will have opportunities to brainstorm and design solutions for simple engineering problems. With the support of Pearson Realize videos, digital interactives, and readers, the student will develop content and conceptual knowledge across a number of scientific topics in earth science, physical science, and life science. Crosscutting concepts such as recognizing and understanding patterns will be integrated throughout the course.

SOCIAL STUDIES 1

In Social Studies 1, the student will focus on how people in communities work together for the benefit of all. In this course, the student will learn about the various ways individuals contribute to their communities. This course emphasizes good citizenship, economics, and geography skills. The course text is Pearson's myWorld Social Studies: Making Our Way workbook. The student will build reading, listening, critical thinking, and problem-solving skills through the course activities. To learn more about communities, the student will explore maps, photographs, illustrations, music, and other resources. Multimedia resources, including videos and interactive websites, enhance and support the content.

GRADE 2

ART 2

In the Art 2 course, students will continue to develop and use skills in art, building on his knowledge about line, shape, and color. Your student will be introduced to other art elements as well as to the principles of design. This course will enable your student to develop his creative side through the introduction of art media and through the exploration of art themes. The activities in this course include drawing, learning about color, creating designs using balance and patterns, and working with three-dimensional forms.

COMPUTER SCIENCE 2

In the Computer Science 2 course, the student will learn the principles of responsible internet use, fundamentals of computer systems, basic troubleshooting, and the practical use of data in a computing setting. Computing system and programming instruction is presented in close alignment with national CSTA K-12 Computer Science Standards. Throughout the core instruction, the student is prompted to explain basic computing concepts, master domain-specific terminology, and describe and use patterns to make predictions. Advanced concepts are broken down into easily understandable and applicable components that enable the student to conduct a simple data analysis. Together, the course elements provide the student with a thorough and approachable introduction to the field of computer science. The student will apply their learning to approach more advanced computing topics such as decomposing problems, writing and editing algorithms, and creating and debugging computer programs. Students are presented with instruction on algorithms in the form of practical lists and steps, with real-world applications for creating, evaluating, and correcting, and finish by using their knowledge to write a program in a block-based programming framework. The student is provided with a solid foundation in computer science fundamentals that will prove invaluable in future computing, programming, and networking studies.

EXPERIENCING MUSIC III

The Experiencing Music III course is designed for students in grades K–2, this course deepens the student's understanding of the roles musicians play in today's society. Aligning to the National Core Arts Standards, this course uses dynamic media to help the student discover a musical identity while expanding knowledge of the foundations of music. The student will apply foundational knowledge to different musical styles and literature. With audio, visual, and interactive technologies, this course provides a unique and advanced learning experience.

LANGUAGE ARTS 2

In Language Arts 2 A, the student will learn, practice, and apply the fundamental skills and strategies that will help them grow into a strong, fluent reader and writer. Reading, writing, and language instruction are presented in close alignment with the Common Core State Standards (CCSS). Daily core reading instruction give the student the opportunity to read texts in a variety of literary and nonfiction genres at levels that match their individual ability. Instruction is presented in two modes: Peer Model, in which the student views a video of a peer learning how to use and apply the target skill, and 21st Century, in which the student gains proficiency in the skills, knowledge, and expertise they must master to succeed in work and life. Throughout the core reading block, engaging and thought-provoking activities allow the student to master a variety of related disciplines, including fluency, vocabulary, and speaking and listening. The focus on reading is supplemented with instruction in phonics, handwriting, grammar, and reading foundations—skill areas vital to a burgeoning reader’s development. The course also provides the student with a thorough understanding of the writing process, from planning to drafting to revision, editing, and publishing, and includes instruction in developing a how-to book and an opinion text. Together, the course elements ensure that the student grows as a reader, writer, and communicator.

In Language Arts 2 B, the student will learn, practice, and apply the fundamental skills and strategies that will help them grow into strong, fluent readers and writers. Reading, writing, and language instruction are presented in close alignment with the Common Core State Standards (CCSS). Daily core reading instruction gives the student the opportunity to read texts in a variety of literary and nonfiction genres at levels that match their individual ability. Instruction is presented in two modes: Peer Model, in which the student views a video of a peer learning how to use and apply the target skill, and 21st Century, in which the student gains proficiency in the skills, knowledge, and expertise they must master to succeed in work and life. Throughout the core reading block, engaging and thought-provoking activities allow the student to master a variety of related disciplines, including fluency, vocabulary, and speaking and listening. The focus on reading is supplemented with instruction in phonics, handwriting, grammar, and reading foundations—skill areas vital to a burgeoning reader’s development. The course also provides the student with a thorough understanding of the writing process, from planning to drafting to revision, editing, and publishing, and includes instruction in developing a narrative text and a research report. Together, the course elements ensure that the student grows as a reader, writer, and communicator.

MATH 2

In Math 2, the student will learn mathematical concepts related to addition and subtraction, even and odd numbers, time, and money. Concepts are developed using mathematical processes of problem-solving, reasoning, communicating, representing, and making connections. Building both conceptual knowledge and procedural fluency supports the student’s development of mathematical thinking and reasoning in solving various problems of authentic contexts.

PHYSICAL EDUCATION 2

In Physical Education 2 the student will learn a new game or activity each week. There will be games and activities that may be played inside, while others will be better suited for outdoor play. The games and activities in this course are grouped in thematic units. In each lesson, the student will find a brief description of that week's game. Each week a new game will be added, but the previous lessons' games will still be listed for the student to see. In addition to the activities described in the lessons, students will also have the option of participating in yoga or an individual or team sport.

SCIENCE 2

Throughout the Science 2 course, students will explore science topics across disciplines through hands-on experiences, virtual labs, and interactive activities. The student will develop science inquiry skills such as planning and conducting investigations, organizing, and analyzing data, and drawing conclusions. Particular emphasis will be on creating and following simple procedures for investigations. Included in the course is experience with the engineering design process. The student will have opportunities to brainstorm and design solutions for engineering problems. With the support of Pearson Realize videos, digital interactives, and readers, the student will develop content and conceptual knowledge across a number of scientific topics in earth science, physical science, and life science. Crosscutting concepts such as understanding cause and effect will be integrated throughout the course.

SOCIAL STUDIES 2

In Social Studies 2, the student continues to be introduced to basic concepts of citizenship, economics, and geography. In this course, the practice of geography, reading, critical thinking, and problem-solving skills accompanies structured instruction and activities. The student will learn about ordinary individuals who showed good citizenship. Through Learning Coach-led discussions, textbook readings, interactive activities, and hands-on projects, the student will continue to explore the world through the lens of social studies. The course text is Pearson's myWorld Social Studies: We Do Our Part workbook. The student will explore maps, photographs, illustrations, music, and other resources. Multimedia resources, including videos and interactive websites, enhance and support the content.

GRADE 3

ART 3

The Art 3 course focuses on arts and crafts inspired by the four seasons. The student will examine and create artwork based on seasonal characteristics or common cultural trends. The student will be exposed to art history, art criticism, and art production activities with a multicultural focus. Creative freedom is experienced as the student uses his imagination and several types of media and processes. These processes include drawing, painting, printmaking, sculpture, bookmaking, and techniques for creating crafts and fiber arts.

CONNECTED LANGUAGE ARTS 3

In Connected Language Arts 3 A, students will learn, practice, and apply the skills and strategies intrinsic to becoming a stronger, more fluent reader and writer. The course presents reading, writing, and language instruction in close alignment with the Common Core State Standards (CCSS). In daily core reading instruction, the student will have the opportunity to read texts in a variety of literary and nonfiction genres. Instruction is then presented in two modes: Peer Model, in which the student will view a video of a peer learning how to use and apply the target skill, and 21st Century, in which the student will gain proficiency in the skills, knowledge, and expertise they must master to succeed in work and life. Throughout the core reading block, engaging and thought-provoking activities allow the student to master a variety of related disciplines, including fluency, vocabulary, and speaking and listening. The course also provides the student with a thorough understanding of the writing process, from planning to drafting to revision, editing, and publishing, and includes instruction in developing a personal narrative and an explanatory text. The focus on

reading and writing is supplemented with instruction in grammar, phonics, spelling, handwriting, and reading foundations—skill areas vital to the student's overall development as a reader, writer, and communicator.

In Connected Language Arts 3 B, the student will learn, practice, and apply the skills and strategies intrinsic to becoming a stronger, more fluent reader and writer. The course presents reading, writing, and language instruction in close alignment with the Common Core State Standards (CCSS). In daily core reading instruction, the student will have the opportunity to read texts in a variety of literary and nonfiction genres. Instruction is presented in two modes: Peer Model, in which the student will view a video of a peer learning how to use and apply the target skill, and 21st Century, in which the student will gain proficiency in the skills, knowledge, and expertise they must master to succeed in work and life. Throughout the core reading block, engaging and thought-provoking activities allow the student to master a variety of related disciplines, including fluency, vocabulary, and speaking and listening. The course also provides the student with a thorough understanding of the writing process, from planning to drafting to revision, editing, and publishing, and includes instruction in developing an opinion text and generating a research report from topical investigation. The focus on reading and writing is supplemented with instruction in grammar, phonics, spelling, handwriting, and reading foundations—skill areas vital to the student's overall development as a reader, writer, and communicator.

CONNECTED MATH 3

In Connected Math 3 A, students will learn mathematical concepts related to multiplication and division, patterns, rounding, and mental math. Concepts are developed using mathematical processes of problem-solving, reasoning, communicating, representing, and making connections. Building both conceptual knowledge and procedural fluency supports the student's development of mathematical thinking and reasoning in solving various problems of authentic contexts. In this course, the needs of the essential student are addressed in various ways, while still maintaining the integrity of the content. Special attention is paid to the reading level of the student-facing content to ensure comprehension. Each lesson includes a connection to prior knowledge and concrete examples to help your student relate to the new material. Hands-On Activities are included in every lesson and are customized for the essential learner. Practice, reinforcement, and error correction are encouraged throughout the course as your student works with small sets of problems at a time. Taken as a whole, these modifications give your student access to all grade-level content in a way that is conducive to your student's learning style.

In Connected Math 3 B, students will learn mathematical concepts related to 2-D shapes, area, perimeter, fractions, interpreting data, time, mass, and capacity. Concepts are developed using mathematical processes of problem-solving, reasoning, communicating, representing, and making connections. Building both conceptual knowledge and procedural fluency supports the student's development of mathematical thinking and reasoning in solving various problems of authentic contexts. In this course, the needs of the essential student are addressed in various ways, while still maintaining the integrity of the content. Special attention is paid to the reading level of the student-facing content to ensure comprehension. Each lesson includes a connection to prior knowledge and concrete examples to help your student relate to the new material. Hands-On Activities are included in every lesson and are customized for the essential learner. Practice, reinforcement, and error correction are encouraged throughout the course as your student works with small sets of problems at a time. Taken as a whole, these modifications give your student access to all grade-level content in a way that is conducive to your student's learning style.

CONNECTED SCIENCE 3

In Connected Science 3 A, students will explore forces and motion, magnets, and several topics related to life science. These topics include plant and animal life cycles, heredity, and animal groups. The student will have many opportunities to test hypotheses, experiment, and make real world connections.

In Connected Science 3 B, students will explore variation and change, such as the characteristics of living versus non-living organisms and environmental change, and life science topics. These include habitats, fossils, and weather and climate. The student will have many opportunities to test hypotheses, experiment, and make real world connections.

CONNECTED SOCIAL STUDIES 3

In Connected Social Studies 3 A, the student will explore maps and geography, the characteristics of a community, and early American communities and settlers. The student will also examine the government of the United States with a focus on each branch.

In Connected Social Studies 3 B, the student will focus on the themes of community through citizenship, travel, technology, culture, and diversity. The student will be introduced to the basics of economics, including supply and demand, spending and saving, and local economies.

DISCOVERING MUSIC I

Discovering Music I is designed for students in grades 3–5, this course teaches fundamental musicianship skills from a Western-Classical approach, while aligning to the National Core Arts Standards. The course challenges the student to improve listening, notation, analysis, performance, and improvisation skills. With audio, visual, and interactive technologies, this course provides a unique and advanced learning experience.

ESSENTIAL MATH 3

In Essential Math 3 A, the student will learn mathematical concepts related to multiplication and division, patterns, rounding, and mental math. Concepts are developed using mathematical processes of problem-solving, reasoning, communicating, representing, and making connections. Building both conceptual knowledge and procedural fluency supports the student's development of mathematical thinking and reasoning in solving various problems of authentic contexts. In this course, the needs of the essential student are addressed in various ways, while still maintaining the integrity of the content. Special attention is paid to the reading level of the student-facing content to ensure comprehension. Each lesson includes a connection to prior knowledge and concrete examples to help your student relate to the new material. Hands-On Activities are included in every lesson and are customized for the essential learner. Practice, reinforcement, and error correction are encouraged throughout the course as your student works with small sets of problems at a time. Taken as a whole, these modifications give your student access to all grade-level content in a way that is conducive to your student's learning style.

In Essential Math 3 B, the student will learn mathematical concepts related to 2-D shapes, area, perimeter, fractions, interpreting data, time, mass, and capacity. Concepts are developed using mathematical processes of problem-solving, reasoning, communicating, representing, and making connections. Building both conceptual knowledge and procedural fluency supports the student's development of mathematical thinking and reasoning in solving various problems of authentic contexts. In this course, the needs of the essential student are addressed in various ways, while still maintaining the integrity of the content. Special attention is paid to the reading level of the student-facing content to ensure comprehension. Each lesson includes a connection to prior knowledge and concrete examples to help your student relate to the new material. Hands-On Activities are included in every lesson and are customized for the essential learner. Practice, reinforcement, and error correction are encouraged throughout the course as your student works with small sets of problems at a time. Taken as a whole, these modifications give your student access to all grade-level content in a way that is conducive to your student's learning style.

GIFTED AND TALENTED LANGUAGE ARTS 3

In Gifted and Talented Language Arts 3, the student will learn, practice, and apply the skills and strategies intrinsic to becoming a stronger, more fluent reader and writer. The course presents reading, writing, and language instruction in close alignment with the Common Core State Standards (CCSS). In addition, the course supports grade three English/language arts skill instruction expectations as defined by the Missouri Learning Standards. Throughout the course, the student will engage in activities that promote critical thinking, explore increasingly complex conceptual relationships, and encourage them to be curious about the world they live in and explore ways to test and apply their ideas. In daily core reading instruction, the student will have the opportunity to read texts in a variety of literary and nonfiction genres. Instruction is then presented in two modes: Peer Model, in which the

student will view a video of a peer learning how to use and apply the target skill, and 21st Century, in which the student will gain proficiency in the skills, knowledge, and expertise they must master to succeed in work and life. Throughout the core reading block, engaging and thought-provoking activities allow the student to master a variety of related disciplines, including fluency, vocabulary, and speaking and listening. The course also provides the student with a thorough understanding of the writing process, from planning to drafting to revision, editing, and publishing, and includes instruction in developing a personal narrative and an explanatory text. The focus on reading and writing is supplemented with instruction in grammar, phonics, spelling, handwriting, and reading foundations—skill areas vital to the student's overall development as a reader, writer, and communicator.

GIFTED AND TALENTED MATH 3

In Gifted and Talented Math 3 A, the student will learn mathematical concepts related to multiplication and division, patterns, rounding, mental math, and representing and interpreting data on line plots. Concepts are developed using mathematical processes of problem-solving, reasoning, communicating, representing, and making connections. Building both conceptual knowledge and procedural fluency supports the student's development of mathematical thinking and reasoning in solving various problems of authentic contexts.

In Gifted and Talented Math 3 B, the student will learn mathematical concepts related to fraction equivalence, adding, subtracting, and multiplying fractions, comparing decimals, using whole numbers to solve problems, area, and perimeter. Concepts are developed using mathematical processes of problem-solving, reasoning, communicating, representing, and making connections. Building both conceptual knowledge and procedural fluency supports the student's development of mathematical thinking and reasoning in solving various problems of authentic contexts.

GIFTED AND TALENTED SCIENCE 3

In Gifted and Talented Science 3 A, students will explore forces and motion, magnets, and several topics related to life science. These topics include plant and animal life cycles, heredity, and animal groups. The student will have many opportunities to test hypotheses, experiment, and make real world connections. Throughout the course, the student will engage in activities that promote critical thinking, explore increasingly complex conceptual relationships, and encourage them to be curious about the world they live in and explore ways to test and apply their ideas.

In Gifted and Talented Science 3 B, the student will explore variation and change, such as the characteristics of living versus non-living organisms and environmental change, and life science topics. These include habitats, fossils, and weather and climate. The student will have many opportunities to test hypotheses, experiment, and make real world connections. Throughout the course, the student will engage in activities that promote critical thinking, explore increasingly complex conceptual relationships, and encourage them to be curious about the world they live in and explore ways to test and apply their ideas.

LANGUAGE ARTS 3

In Language Arts 3, students will learn, practice, and apply the skills and strategies intrinsic to becoming a stronger, more fluent reader and writer. The course presents reading, writing, and language instruction in close alignment with the Common Core State Standards (CCSS). In addition, the course supports grade three English/language arts skill instruction expectations as defined by the Missouri Learning Standards. In daily core reading instruction, the student will have the opportunity to read texts in a variety of literary and nonfiction genres. Instruction is then presented in two modes: Peer Model, in which the student will view a video of a peer learning how to use and apply the target skill, and 21st Century, in which the student will gain proficiency in the skills, knowledge, and expertise they must master to succeed in work and life. Throughout the core reading block, engaging and thought-provoking activities allow the student to master a variety of related disciplines, including fluency, vocabulary, and speaking and listening. The course also provides the student with a thorough understanding of the writing process, from planning to drafting to revision, editing, and publishing, and includes instruction in developing a personal narrative and an explanatory text. The focus on

reading and writing is supplemented with instruction in grammar, phonics, spelling, handwriting, and reading foundations—skill areas vital to the student's overall development as a reader, writer, and communicator.

MATH 3

In Math 3, the student will learn mathematical concepts related to multiplication and division, patterns, rounding, and mental math. Concepts are developed using mathematical processes of problem-solving, reasoning, communicating, representing, and making connections. Building both conceptual knowledge and procedural fluency supports the student's development of mathematical thinking and reasoning in solving various problems of authentic contexts.

PHYSICAL EDUCATION 3

Students in Physical Education 3 are expected to understand and demonstrate clearly-defined combinations of movements. Each week the student will learn one or more new activities. In addition, the student will learn the importance of nutrition as it relates to health and physical fitness. The student will learn life skills throughout the curriculum. In each lesson, the student will find a brief description of that week's activity. Each week a new activity will be added, but the previous activities can always be reviewed.

SCIENCE 3

In Science 3, students will explore forces and motion, magnets, and several topics related to life science. These topics include plant and animal life cycles, heredity, and animal groups. The student will have many opportunities to test hypotheses, experiment, and make real world connections.

SOCIAL STUDIES 3

In Social Studies 3, students will explore maps and geography, the characteristics of a community, and early American communities and settlers. The student will also examine the government of the United States with a focus on each branch.

GRADE 4

ART 4

This course focuses on arts and crafts inspired by the four seasons. The student will examine and create artwork based on seasonal characteristics or common cultural trends. The student will be exposed to art history, art criticism, and art production activities with a multicultural focus. Creative freedom is experienced as the student uses his imagination and several types of media and processes. These processes include drawing, painting, printmaking, sculpture, bookmaking, and techniques for creating crafts and fiber arts.

CONNECTED LANGUAGE ARTS 4

In Connected Language Arts 4, the student will learn, practice, and apply the skills and strategies intrinsic to becoming a stronger, more fluent reader and writer. The course presents reading, writing, and language instruction in close alignment with the Common Core State Standards (CCSS). Throughout the course, the student will engage in activities that promote critical thinking, explore increasingly complex conceptual relationships, and encourage them to be curious about the world they live in and explore ways to test and apply their ideas. In daily core reading instruction, the student will have the opportunity to read texts in a variety of literary and nonfiction genres. Instruction is presented in two modes: Peer Model, in which the student will view a video of a peer learning how to use and apply the target skill, and 21st Century, in which the student will gain proficiency in the skills, knowledge, and

expertise they must master to succeed in work and life. Throughout the core reading block, engaging and thought-provoking activities allow the student to master a variety of related disciplines, including fluency, vocabulary, and speaking and listening. The course also provides the student with a thorough understanding of the writing process, from planning to drafting to revision, editing, and publishing, and includes instruction in developing narrative and explanatory texts. The focus on reading and writing is supplemented with instruction in grammar, spelling, and handwriting—skill areas vital to the student's overall development as a reader, writer, and communicator.

CONNECTED MATH 4

In Connected Math 4 A, the student will learn mathematical concepts related to place value, adding and subtracting multi-digit whole numbers, strategies for multiplication and division, factors, multiples, algebra, and patterns. Concepts are developed using mathematical processes of problem-solving, reasoning, communicating, representing, and making connections. Building both conceptual knowledge and procedural fluency supports the student's development of mathematical thinking and reasoning in solving various problems of authentic contexts. In this course, the needs of the essential student are addressed in various ways, while still maintaining the integrity of the content. Special attention is paid to the reading level of the student-facing content to ensure comprehension. Each lesson includes a connection to prior knowledge and concrete examples to help your student relate to the new material. Hands-On Activities are included in every lesson and are customized for the essential learner. Practice, reinforcement, and error correction are encouraged throughout the course as your student works with small sets of problems at a time. Taken as a whole, these modifications give your student access to all grade-level content in a way that is conducive to your student's learning style.

In Connected Math 4 B, the student will learn mathematical concepts related to fraction equivalence, adding, subtracting, and multiplying fractions, comparing decimals, interpreting data, angles, lines, shapes, and measurement. Concepts are developed using mathematical processes of problem-solving, reasoning, communicating, representing, and making connections. Building both conceptual knowledge and procedural fluency supports the student's development of mathematical thinking and reasoning in solving various problems of authentic contexts. In this course, the needs of the essential student are addressed in various ways, while still maintaining the integrity of the content. Special attention is paid to the reading level of the student-facing content to ensure comprehension. Each lesson includes a connection to prior knowledge and concrete examples to help your student relate to the new material. Hands-On Activities are included in every lesson and are customized for the essential learner. Practice, reinforcement, and error correction are encouraged throughout the course as your student works with small sets of problems at a time. Taken as a whole, these modifications give your student access to all grade-level content in a way that is conducive to your student's learning style.

CONNECTED SCIENCE 4

In Connected Science 4 A, the student will explore multiple concepts related to energy and the structures of plants and animals. Topics include the transfer and forms of energy such as mechanical energy, speed, sound, light, heat, and electric currents. In addition, the student will study the internal structures of plants and animals. These comprise systems of reproduction and adaptation. Throughout the course, the student will have many opportunities to plan, test hypotheses, experiment, organize and analyze data, and make real world connections.

In Connected Science 4 B, the student will study the brain in animals and explore multiple areas of earth science. This includes the senses, how the brain processes information, weathering and erosion, Earth's layers and features, natural disasters, and their impact on life. Students will examine natural energy resources including resource conservation and the environment. Throughout the course, the student will have many opportunities to plan, test hypotheses, experiment, organize and analyze data, and make real world connections.

CONNECTED SOCIAL STUDIES 4

In Connected Social Studies 4 A, the student will explore several historical and geographical themes focused on the United States. Topics include American government, geography, history, citizenship, and economics. The student will also build upon their understanding of the first inhabitants and explorers of the United States, as well as its beginnings as a new nation.

In Connected Social Studies 4 B, the student will examine several aspects of all five geographic regions of the United States. These include the northeast, southeast, midwest, southwest, and west. The student will also delve into topics specific to their particular state.

DISCOVERING MUSIC II

The Discovering Music II course is designed for students in grades 3–5, this course builds on fundamental musicianship skills introduced in Discovering Music I. Aligning to the National Core Arts Standards, the course teaches the student to explore new concepts in rhythm and notation, as well as improve listening, notation, analysis, performance, and improvisation skills. The student will use a basic understanding of the orchestra to explore instrumentation and orchestration in more depth, and analyze compositional style from a range of periods. With audio, visual, and interactive technologies, this course provides a unique and advanced learning experience. Discovering Music I is a prerequisite for this course.

ESSENTIAL MATH 4

In Essential Math 4 A, the student will learn mathematical concepts related to place value, adding and subtracting multi-digit whole numbers, strategies for multiplication and division, factors, multiples, algebra, and patterns. Concepts are developed using mathematical processes of problem-solving, reasoning, communicating, representing, and making connections. Building both conceptual knowledge and procedural fluency supports the student's development of mathematical thinking and reasoning in solving various problems of authentic contexts. In this course, the needs of the essential student are addressed in various ways, while still maintaining the integrity of the content. Special attention is paid to the reading level of the student-facing content to ensure comprehension. Each lesson includes a connection to prior knowledge and concrete examples to help your student relate to the new material. Hands-On Activities are included in every lesson and are customized for the essential learner. Practice, reinforcement, and error correction are encouraged throughout the course as your student works with small sets of problems at a time. Taken as a whole, these modifications give your student access to all grade-level content in a way that is conducive to your student's learning style.

In Essential Math 4 B, the student will learn mathematical concepts related to fraction equivalence, adding, subtracting, and multiplying fractions, comparing decimals, interpreting data, angles, lines, shapes, and measurement. Concepts are developed using mathematical processes of problem-solving, reasoning, communicating, representing, and making connections. Building both conceptual knowledge and procedural fluency supports the student's development of mathematical thinking and reasoning in solving various problems of authentic contexts. In this course, the needs of the essential student are addressed in various ways, while still maintaining the integrity of the content. Special attention is paid to the reading level of the student-facing content to ensure comprehension. Each lesson includes a connection to prior knowledge and concrete examples to help your student relate to the new material. Hands-On Activities are included in every lesson and are customized for the essential learner. Practice, reinforcement, and error correction are encouraged throughout the course as your student works with small sets of problems at a time. Taken as a whole, these modifications give your student access to all grade-level content in a way that is conducive to your student's learning style.

GIFTED AND TALENTED LANGUAGE ARTS 4

In Gifted and Talented Language Arts 4, the student will learn, practice, and apply the skills and strategies intrinsic to becoming a stronger, more fluent reader and writer. The course presents reading, writing, and language instruction in close alignment with the Common Core State Standards (CCSS). In addition, the course supports grade four English/language arts skill instruction expectations as defined by the Missouri Learning Standards. Throughout the course, the student will engage in activities that promote critical

thinking, explore increasingly complex conceptual relationships, and encourage them to be curious about the world they live in and explore ways to test and apply their ideas. In daily core reading instruction, the student will have the opportunity to read texts in a variety of literary and nonfiction genres. Instruction is presented in two modes: Peer Model, in which the student will view a video of a peer learning how to use and apply the target skill, and 21st Century, in which the student will gain proficiency in the skills, knowledge, and expertise they must master to succeed in work and life. Throughout the core reading block, engaging and thought-provoking activities allow the student to master a variety of related disciplines, including fluency, vocabulary, and speaking and listening. The course also provides the student with a thorough understanding of the writing process, from planning to drafting to revision, editing, and publishing, and includes instruction in developing narrative and explanatory texts. The focus on reading and writing is supplemented with instruction in grammar, spelling, and handwriting—skill areas vital to the student's overall development as a reader, writer, and communicator.

GIFTED AND TALENTED MATH 4

In Gifted and Talented Math 4 A, the student will learn mathematical concepts related to place value, adding and subtracting multi-digit whole numbers, adding and subtracting decimals, using models to multiply and divide, the coordinate plane, algebra, patterns and relationships. Concepts are developed using mathematical processes of problem-solving, reasoning, communicating, representing, and making connections. Building both conceptual knowledge and procedural fluency supports the student's development of mathematical thinking and reasoning in solving various problems of authentic contexts.

In Gifted and Talented Math 4 B, the student will learn mathematical concepts related to angles, shapes and measurement, 2D figures, operations with fractions, volume, converting measurements, interpreting data, equivalent expressions, the coordinate plane, patterns and relationships. Concepts are developed using mathematical processes of problem-solving, reasoning, communicating, representing, and making connections. Building both conceptual knowledge and procedural fluency supports the student's development of mathematical thinking and reasoning in solving various problems of authentic contexts.

GIFTED AND TALENTED SCIENCE 4

In Gifted and Talented Science 4 A, the student will explore multiple concepts related to energy and the structures of plants and animals. Topics include the transfer and forms of energy such as mechanical energy, speed, sound, light, heat, and electric currents. In addition, the student will study the internal structures of plants and animals. These comprise systems of reproduction and adaptation. Throughout the course, the student will engage in activities that promote critical thinking, explore increasingly complex conceptual relationships, and encourage them to be curious about the world they live in and explore ways and apply their ideas.

In Gifted and Talented Science 4 B, the student will study the brain in animals and explore multiple areas of earth science. This includes the senses, how the brain processes information, weathering and erosion, Earth's layers and features, natural disasters, and their impact on life. The student will examine natural energy resources including resource conservation and the environment. Throughout the course, the student will engage in activities that promote critical thinking, explore increasingly complex conceptual relationships, and encourage them to be curious about the world they live in and explore ways and apply their ideas.

LANGUAGE ARTS 4

In Language Arts 4, the student will learn, practice, and apply the skills and strategies intrinsic to becoming a stronger, more fluent reader and writer. The course presents reading, writing, and language instruction in close alignment with the Common Core State Standards (CCSS). In addition, the course supports grade four English/language arts skill instruction expectations as defined by the Missouri Learning Standards. In daily core reading instruction, the student will have the opportunity to read texts in a variety of literary and nonfiction genres. Instruction is presented in two modes: Peer Model, in which the student will view a video of a peer learning how to use and apply the target skill, and 21st Century, in which the student will gain proficiency in the skills, knowledge, and expertise they must master to succeed in work and life. Throughout the core reading block, engaging and thought-provoking activities allow the student to master a variety of related disciplines, including fluency, vocabulary, and speaking and listening. The

course also provides the student with a thorough understanding of the writing process, from planning to drafting to revision, editing, and publishing, and includes instruction in developing narrative and explanatory texts. The focus on reading and writing is supplemented with instruction in grammar, spelling, and handwriting—skill areas vital to the student's overall development as a reader, writer, and communicator.

MATH 4

In Math 4, the student will learn mathematical concepts related to place value, adding and subtracting multi-digit whole numbers, strategies for multiplication and division, factors, multiples, algebra, and patterns. Concepts are developed using mathematical processes of problem-solving, reasoning, communicating, representing, and making connections. Building both conceptual knowledge and procedural fluency supports the student's development of mathematical thinking and reasoning in solving various problems of authentic contexts.

PHYSICAL EDUCATION 4

At the fourth-grade level, student's hand-eye coordination has improved, allowing for advanced instruction in individual and partner activities. Fourth grade students are able to understand rules and the importance of following them. The development of a healthy lifestyle requires that the student acquire knowledge to make positive decisions about exercise, and nutrition. The student's participation and progress will be monitored through the Physical Activity Log and periodic performance tests.

SCIENCE 4

In Science 4, the student will explore multiple concepts related to energy and the structures of plants and animals. Topics include the transfer and forms of energy such as mechanical energy, speed, sound, light, heat, and electric currents. In addition, the student will study the internal structures of plants and animals. These comprise systems of reproduction and adaptation. Throughout the course, the student will have many opportunities to plan, test hypotheses, experiment, organize and analyze data, and make real world connections.

SOCIAL STUDIES 4

In Social Studies 4, students will explore several historical and geographical themes focused on the United States. The student will build upon their understanding of the first inhabitants and explorers of the United States, as well as its beginnings as a new nation.

GRADE 5

ART 5

In Art 5, students will be introduced to works of art through time. Throughout history the growth and development of civilizations around the world have been recorded and defined through the works of artists. The student will become familiar with the art elements, the principles of design, and how these elements and principles were applied to create visual art in different time periods and cultures.

COMPUTER SCIENCE 5

In Computer Science 5, students learn features and functions of both internal and external computer technology. Students will troubleshoot to solve simple hardware and software problems using common strategies. Organizing arguments, using data to

predict outcomes, identifying cause-and-effect relationships, and using diverse perspectives to support claims are also skills that students will practice in this course. Students will learn the how to use computer technology to provide a safe and inclusive environment for all learners including accessibility, usability, and the impacts technology has on cultural practices. Students will then incorporate previous knowledge of technology to study cybersecurity and learn to use technology safely to protect personal information. Reviews of intellectual property, public domain, and creative commons media will give students the opportunity to include existing programs into their own work to develop something new or more advanced. This will culminate in students examining and creating sequences that use simple block-based programming in Minecraft Education edition. Students will use Minecraft Education to build sequences that demonstrate events, loops, conditionals, and variables that are used to store data. Lastly, students will be testing and debugging these sequences to practice their skills of identifying cause-and-effect relationships and creative problem solving.

CONNECTED LANGUAGE ARTS 5

In Connected Language Arts 5 A, students will learn, practice, and apply the skills and strategies intrinsic to becoming a stronger, more fluent reader and writer. The course presents reading, writing, and language instruction in close alignment with the Common Core State Standards (CCSS). In daily core reading instruction, the student will have the opportunity to read texts in a variety of literary and nonfiction genres. Instruction is presented in two modes: Peer Model, in which the student will view a video of a peer learning how to use and apply the target skill, and 21st Century, in which the student will gain proficiency in the skills, knowledge, and expertise they must master to succeed in work and life. Throughout the core reading block, engaging and thought-provoking activities allow the student to master a variety of related disciplines, including fluency, vocabulary, and speaking and listening. The course also provides the student with a thorough understanding of the writing process, from planning to drafting to revision, editing, and publishing, and includes instruction in developing narrative and explanatory texts. The focus on reading and writing is supplemented with instruction in grammar, spelling, and handwriting—skill areas vital to the student's overall development as a reader, writer, and communicator.

In Connected Language Arts 5 B, students will learn, practice, and apply the skills and strategies intrinsic to becoming a stronger, more fluent reader and writer. The course presents reading, writing, and language instruction in close alignment with the Common Core State Standards (CCSS). Throughout the course, the student will engage in activities that promote critical thinking, explore increasingly complex conceptual relationships, and encourage them to be curious about the world they live in and explore ways to test and apply their ideas. In daily core reading instruction, the student will have the opportunity to read texts in a variety of literary and nonfiction genres. Instruction is presented in two modes: Peer Model, in which the student will view a video of a peer learning how to use and apply the target skill, and 21st Century, in which the student will gain proficiency in the skills, knowledge, and expertise they must master to succeed in work and life. Throughout the core reading block, engaging and thought-provoking activities allow the student to master a variety of related disciplines, including fluency, vocabulary, and speaking and listening. The course also provides the student with a thorough understanding of the writing process, from planning to drafting to revision, editing, and publishing, and includes instruction in developing narrative and explanatory texts. The focus on reading and writing is supplemented with instruction in grammar, spelling, and handwriting—skill areas vital to the student's overall development as a reader, writer, and communicator.

CONNECTED MATH 5

In Connected Math 5 A, the student will learn mathematical concepts related to place value, adding and subtracting decimals, using models to multiply and divide, the coordinate plane, algebra, patterns, and relationships. Concepts are developed using mathematical processes of problem-solving, reasoning, communicating, representing, and making connections. Building both conceptual knowledge and procedural fluency supports the student's development of mathematical thinking and reasoning in solving various problems of authentic contexts. In this course, the needs of the essential student are addressed in various ways, while still maintaining the integrity of the content. Special attention is paid to the reading level of the student-facing content to ensure comprehension. Each lesson includes a connection to prior knowledge and concrete examples to help your student relate to the new material. Hands-On Activities are included in every lesson and are customized for the essential learner. Practice,

reinforcement, and error correction are encouraged throughout the course as your student works with small sets of problems at a time. Taken as a whole, these modifications give your student access to all grade-level content in a way that is conducive to your student's learning style.

In Connected Math 5 B, the student will learn mathematical concepts related to 2-D figures, operations with fractions, volume, converting measurements, interpreting data, and equivalent expressions. Concepts are developed using mathematical processes of problem-solving, reasoning, communicating, representing, and making connections. Building both conceptual knowledge and procedural fluency supports the student's development of mathematical thinking and reasoning in solving various problems of authentic contexts. In this course, the needs of the essential student are addressed in various ways, while still maintaining the integrity of the content. Special attention is paid to the reading level of the student-facing content to ensure comprehension. Each lesson includes a connection to prior knowledge and concrete examples to help your student relate to the new material. Hands-On Activities are included in every lesson and are customized for the essential learner. Practice, reinforcement, and error correction are encouraged throughout the course as your student works with small sets of problems at a time. Taken as a whole, these modifications give your student access to all grade-level content in a way that is conducive to your student's learning style.

CONNECTED SCIENCE 5

The Connected Science 5 A course is designed to give the student a strong basis for understanding the world. The course consists of a varied curriculum that provides the student the opportunity to explore, compare, research, reflect, and make real-world connections. The curriculum engages students in problem-solving and scientific investigation and provides opportunities for both hands-on exploration and virtual simulation. During this course, the student will learn about the solar system; Earth, sun, and stars; gravity; the properties of matter; and more.

The Connected Science 5 B course is designed to give the student a strong basis for understanding the world. The course consists of a varied curriculum that provides the student the opportunity to explore, compare, research, reflect, and make real-world connections. The curriculum, which meets Next Generation Science Standards (NGSS), engages students in problem-solving and scientific investigation and provides opportunities for both hands-on exploration and virtual simulation. During this course, the student will learn about physical and chemical changes in matter, the ecosystem, plant growth and photosynthesis, food webs, conservation, among other things.

CONNECTED SOCIAL STUDIES 5

In Connected Social Studies 5 A, students will trace United States history from the early exploration and settlement period to the War of 1812. Topics include Spanish, English, and French settlement and the American Revolution. The student will also explore the transition from the Articles of Confederation to the Constitution.

In Connected Social Studies 5 B, students will trace United States history from the era of westward expansion to the twenty-first century. Topics include the Civil War, the Depression, World Wars I and II, and the American civil rights era. The student will also examine a chosen topic and complete an American Research Report.

DISCOVERING MUSIC III

The Discovering Music III course is designed for students in grades 3–5, this course enhances the student's knowledge of musical cultures as he or she discovers a musical identity. Aligning to the National Core Arts Standards, this course provides the student with engaging opportunities to combine musical knowledge with an exploration of different art forms to create new personal works. The student will apply foundational knowledge of music to a variety of musical styles and cultures. With audio, visual, and interactive technologies, this course provides a unique and advanced learning experience. Discovering Music I and Discovering Music II are prerequisites for this course.

ESSENTIAL MATH 5

In Essential Math 5 A, the student will learn mathematical concepts related to place value, adding and subtracting decimals, using models to multiply and divide, the coordinate plane, algebra, patterns, and relationships. Concepts are developed using mathematical processes of problem-solving, reasoning, communicating, representing, and making connections. Building both conceptual knowledge and procedural fluency supports the student's development of mathematical thinking and reasoning in solving various problems of authentic contexts. In this course, the needs of the essential student are addressed in various ways, while still maintaining the integrity of the content. Special attention is paid to the reading level of the student-facing content to ensure comprehension. Each lesson includes a connection to prior knowledge and concrete examples to help your student relate to the new material. Hands-On Activities are included in every lesson and are customized for the essential learner. Practice, reinforcement, and error correction are encouraged throughout the course as your student works with small sets of problems at a time. Taken as a whole, these modifications give your student access to all grade-level content in a way that is conducive to your student's learning style.

In Essential Math 5 B, the student will learn mathematical concepts related to 2-D figures, operations with fractions, volume, converting measurements, interpreting data, and equivalent expressions. Concepts are developed using mathematical processes of problem-solving, reasoning, communicating, representing, and making connections. Building both conceptual knowledge and procedural fluency supports the student's development of mathematical thinking and reasoning in solving various problems of authentic contexts. In this course, the needs of the essential student are addressed in various ways, while still maintaining the integrity of the content. Special attention is paid to the reading level of the student-facing content to ensure comprehension. Each lesson includes a connection to prior knowledge and concrete examples to help your student relate to the new material. Hands-On Activities are included in every lesson and are customized for the essential learner. Practice, reinforcement, and error correction are encouraged throughout the course as your student works with small sets of problems at a time. Taken as a whole, these modifications give your student access to all grade-level content in a way that is conducive to your student's learning style.

GIFTED AND TALENTED LANGUAGE ARTS 5

In Gifted and Talented Language Arts 5 A, the student will learn, practice, and apply the skills and strategies intrinsic to becoming a stronger, more fluent reader and writer. The course presents reading, writing, and language instruction in close alignment with the Common Core State Standards (CCSS). In addition, the course supports grade five English/language arts skill instruction expectations as defined by the Missouri Learning Standards. Throughout the course, the student will engage in activities that promote critical thinking, explore increasingly complex conceptual relationships, and encourage them to be curious about the world they live in and explore ways to test and apply their ideas. In daily core reading instruction, the student will have the opportunity to read texts in a variety of literary and nonfiction genres. Instruction is presented in two modes: Peer Model, in which the student will view a video of a peer learning how to use and apply the target skill, and 21st Century, in which the student will gain proficiency in the skills, knowledge, and expertise they must master to succeed in work and life. Throughout the core reading block, engaging and thought-provoking activities allow the student to master a variety of related disciplines, including fluency, vocabulary, and speaking and listening. The course also provides the student with a thorough understanding of the writing process, from planning to drafting to revision, editing, and publishing, and includes instruction in developing narrative and explanatory texts. The focus on reading and writing is supplemented with instruction in grammar, spelling, and handwriting—skill areas vital to the student's overall development as a reader, writer, and communicator.

In Gifted and Talented Language Arts 5 B, the student will learn, practice, and apply the skills and strategies intrinsic to becoming a stronger, more fluent reader and writer. The course presents reading, writing, and language instruction in close alignment with the Common Core State Standards (CCSS). In daily core reading instruction, the student will have the opportunity to read texts in a variety of literary and nonfiction genres. Instruction is presented in two modes: Peer Model, in which the student will view a video of a peer learning how to use and apply the target skill, and 21st Century, in which the student will gain proficiency in the skills, knowledge, and expertise they must master to succeed in work and life. Throughout the core reading block, engaging and thought-provoking activities allow the student to master a variety of related disciplines, including fluency, vocabulary, and speaking and listening. The course also provides the student with a thorough understanding of the writing process, from planning to drafting to

revision, editing, and publishing, and includes instruction in developing narrative and explanatory texts. The focus on reading and writing is supplemented with instruction in grammar, spelling, and handwriting—skill areas vital to the student's overall development as a reader, writer, and communicator.

GIFTED AND TALENTED MATH 5

In Gifted and Talented Math 5 A, the student will use the four operations with decimals, fractions, and integers to solve equations and inequalities. The student will simplify expressions with exponents and rational numbers. In the study of number theory, the student will further strengthen his skills as he solves problems involving factors and multiples by using divisibility tests and prime factorization. The student will apply ratios, rates, proportions, and scale drawings to solve various problems and then solve percent problems, including percent of change and commission.

In Gifted and Talented Math 5 B, the student will explore concepts in geometry including identifying and describing the properties of geometric figures, as well as the relationships that exist between them. The student will find perimeter, area, and volume of two-dimensional figures and extend measurement skills to determine surface area and volume of three-dimensional figures. Next, the student will use tables, graphs, formulas, and functions to identify and extend number patterns. The student will graph linear and nonlinear relationships, identify slope, and explore translations. In the study of statistics, the student will create, analyze, and interpret different data displays. At the end of the course, the student will study probability and explore dependent events, compound events, and combinations.

GIFTED AND TALENTED SCIENCE 5

The Gifted and Talented Science 5 course is designed to give the student a strong basis for understanding the world. The course consists of a varied curriculum that provides the student the opportunity to explore, compare, research, reflect, and make real-world connections. The curriculum engages students in problem-solving and scientific investigation and provides opportunities for both hands-on exploration and virtual simulation. During this course, the student will learn about the solar system; Earth, sun, and stars; gravity; the properties of matter; and more. Throughout the course, the student will engage in activities that promote critical thinking, explore increasingly complex conceptual relationships, and encourage them to be curious about the world they live in and explore ways and apply their ideas.

LANGUAGE ARTS 5

In Language Arts 5, the student will learn, practice, and apply the skills and strategies intrinsic to becoming a stronger, more fluent reader and writer. The course presents reading, writing, and language instruction in close alignment with the Common Core State Standards (CCSS). In addition, the course supports grade five English/language arts skill instruction expectations as defined by the Missouri Learning Standards. In daily core reading instruction, the student will have the opportunity to read texts in a variety of literary and nonfiction genres. Instruction is presented in two modes: Peer Model, in which the student will view a video of a peer learning how to use and apply the target skill, and 21st Century, in which the student will gain proficiency in the skills, knowledge, and expertise they must master to succeed in work and life. Throughout the core reading block, engaging and thought-provoking activities allow the student to master a variety of related disciplines, including fluency, vocabulary, and speaking and listening. The course also provides the student with a thorough understanding of the writing process, from planning to drafting to revision, editing, and publishing, and includes instruction in developing narrative and explanatory texts. The focus on reading and writing is supplemented with instruction in grammar, spelling, and handwriting—skill areas vital to the student's overall development as a reader, writer, and communicator.

MATH 5

In Math 5, the student will learn mathematical concepts related to place value, adding and subtracting decimals, using models to multiply and divide, the coordinate plane, algebra, patterns, and relationships. Concepts are developed using mathematical processes of problem-solving, reasoning, communicating, representing, and making connections. Building both conceptual knowledge and procedural fluency supports the student's development of mathematical thinking and reasoning in solving various problems of authentic contexts.

PHYSICAL EDUCATION 5

At the fifth grade level students understand the concept of fair play and begin to recognize the varying fitness levels within the appropriate age standards. Playing by the rules and respecting self and others are emphasized as students participate in cooperative physical education activities. Students see how levels of physical activity and food intake are related to a healthy productive life-style.

SCIENCE 5

The Science 5 course is designed to give the student a strong basis for understanding the world. The course consists of a varied curriculum that provides the student the opportunity to explore, compare, research, reflect, and make real- world connections. The curriculum engages students in problem-solving and scientific investigation and provides opportunities for both hands-on exploration and virtual simulation. During this course, the student will learn about the solar system; the Earth, Sun, and stars; gravity; the properties of matter; and more.

SOCIAL STUDIES 5

In Social Studies 5, students will trace United States history from the early exploration to the twenty-first century. Topics include the Civil War, the Depression, and the World Wars I and II. The student will also explore America as a World Leader.

ELEMENTARY ELECTIVES

ELEMENTARY SIGN LANGUAGE

In the Elementary Sign Language course, students will be introduced to the fundamental concepts of American Sign Language. The student will explore vocabulary, numbers, grammar, and conversational skills using basic signing and fingerspelling techniques.

ELEMENTARY SPANISH I

Elementary Spanish I is an introductory-level course that will introduce the student to Spanish. The units are designed to introduce the student to Spanish language and culture through familiar topics such as family and friends, my home, and food. Culture is presented throughout the course to help the student make connections between his culture and the culture of people in the Spanish-speaking world.

ELEMENTARY SPANISH II

Elementary Spanish II enables the student to further develop the communicative skills of listening, speaking, reading, and writing of Spanish at a more advanced level. The units are designed to develop the student's knowledge of Spanish language and culture through familiar topics such as my school, my clothes, and my community. Culture is presented throughout the course to help the student make connections between his culture and the culture of people in the Spanish-speaking world.

MIDDLE SCHOOL

GRADE 6

ART 6

In Art 6, students explore the wide range and variety of visual arts. They learn the basic elements of art and principles of design and apply them in their own creative ways. The course culminates in a study of factors involved in evaluating and critiquing art.

CONNECTED LANGUAGE ARTS 6

In Connected Language Arts 6 A, students will sharpen and strengthen their skills in reading, writing, listening, and speaking. The student is exposed to a wide variety of writing styles to create a sense of curiosity and excitement. During this course, the student will learn to make connections between readings, podcasts, radio clips, videos, and the world. The student will also expand an academic vocabulary and build confidence through independent reading, peer model videos, and practice opportunities. The student will write expository and creative compositions and employ test-taking strategies that are effective for different types of learners.

In Connected Language Arts 6 B, students will sharpen and strengthen their skills in reading, writing, listening, and speaking. The student is exposed to a wide variety of writing styles to create a sense of curiosity and excitement. During this course, the student will learn how to identify credible sources as well as compose argumentative and narrative essays using formal writing techniques. Students will also compare different types of media used to tell stories. These methods include textual, audio, and visual media types.

CONNECTED SCIENCE 6

Connected Science 6 A explores natural objects and phenomenon on our planet, in our solar system, and beyond. This course uses multiple media sources to foster scientific inquiry and spark curiosity. The student will use models to explore the relationship between the sun, moon, and Earth and formulate explanations of lunar phases, eclipses, and seasons. Scientific views and evidence of how Earth and other objects in the universe were formed are presented as the student learns about galaxies, asteroids, and stars. The student will analyze and interpret data from rock layers and fossils giving clues to Earth's age. They will also discover how Earth has changed over time as the student makes connections between Earth's energy systems and plate tectonics.

Connected Science 6 B uses multiple media sources to foster scientific inquiry and spark curiosity. The student will discover ways that scientists use data, models, and technology gather information and make predictions. Throughout this course, the student will investigate topics such as weather, climate, and natural resources. The student will collect and analyze data to discover how changes to weather conditions occur. They will also use scientific models to investigate how atmospheric circulation produces climate patterns and how thermal energy transfer affects climate. This course explains renewable and non-renewable resources and the environmental implications associated with methods of managing and using energy resources. The student will identify and describe human activities that contribute to global climate change. The student will also learn about natural hazards and how scientists use historical data to forecast and prepare for future catastrophic events.

EXPLORING MUSIC I

Exploring Music I is designed for students in grades 6–8, this course teaches fundamental musicianship skills approached from a Western-Classical style, while aligning to National Core Arts Standards. The course challenges the student to improve listening,

notation, analysis, performance, and improvisation skills. With audio, visual, and interactive technologies, the course provides a unique and advanced learning experience for the student.

GEOGRAPHY

The 6th grade Geography course presents an overview of the study of geography and its associated disciplines, including civics, cultural studies, economics, and history. How do geographers acquire knowledge, and what tools do they use? What do people learn from geography? In this course, you will discover how maps, artifacts, sources, and other data come together to show you who you are, how you live, and where you live.

GIFTED AND TALENTED LANGUAGE ARTS 6

In Gifted and Talented Language Arts 6 A, students will sharpen and strengthen their skills in reading, writing, listening, and speaking. The student is exposed to a wide variety of writing styles to create a sense of curiosity and excitement. During this course, the student will learn to make connections between readings, podcasts, radio clips, videos, and the world. The student will also expand an academic vocabulary and build confidence through independent reading, peer model videos, and practice opportunities. The student will write expository and creative compositions and employ test-taking strategies that are effective for different types of learners. Throughout the course, the student will engage in activities that promote critical thinking, explore increasingly complex conceptual relationships, and encourage them to be curious about the world they live in and explore ways to test and apply their ideas.

In Gifted and Talented Language Arts 6 B, students will sharpen and strengthen their skills in reading, writing, listening, and speaking. The student is exposed to a wide variety of writing styles to create a sense of curiosity and excitement. During this course, the student will learn how to identify credible sources as well as compose argumentative and narrative essays using formal writing techniques. Students will also compare different types of media used to tell stories. These methods include textual, audio, and visual media types.

GIFTED AND TALENTED MATH 6

In Gifted and Talented Math 6 A, students will learn, practice, and apply the fundamental skills and strategies that will help them grow into strong mathematical thinkers. Daily instruction supports student learning of core math concepts and development of procedural fluency regarding ordering numbers, whole numbers and decimals, ratios and percentages, rates and measurement, the coordinate plane, number theory and fractions, and addition and subtraction of fractions. Students are encouraged to use visual representations of their thinking to bridge their understanding between the concrete and abstract, allowing patterns and mathematical principles to come to life. Peer Model videos throughout provide illustrations of a peer learning how to use and apply the target mathematical skill using a real-world example. 21st Century instruction further illustrates the connection of mathematical concepts to the real world while supporting students' development of skills, knowledge, and expertise they must master to succeed in life and work. Mathematical discussion prompts encourage students to revise misunderstanding, uncover nuances in application, make connections to prior knowledge, identify patterns, and engage with vocabulary. Students are encouraged to listen critically, critique the reasoning of others, and justify their own solutions. The courses are designed to support a growth mindset regarding math and encourage students to engage in productive struggle; instructional materials explicitly and frequently remind students that mistakes are opportunities for learning and acquiring new skills. Together the course elements ensure the student grows as a mathematical thinker and masters the skills to succeed in life and work.

In Gifted and Talented Math 6 B, students will learn, practice, and apply the fundamental skills and strategies that will help them grow into strong mathematical thinkers. Daily instruction supports student learning of core math concepts and development of procedural fluency regarding multiplication and division of fractions, expressions, equations, inequalities, area and volume, coordinate geometry and nets, and statistics. Students are encouraged to use visual representations of their thinking to bridge their understanding between the concrete and abstract, allowing patterns and mathematical principles to come to life. Peer Model videos

throughout provide illustrations of a peer learning how to use and apply the target mathematical skill using a real-world example. 21st Century instruction further illustrates the connection of mathematical concepts to the real world while supporting students' development of skills, knowledge, and expertise they must master to succeed in life and work. Mathematical discussion prompts encourage students to revise misunderstanding, uncover nuances in application, make connections to prior knowledge, identify patterns, and engage with vocabulary. Students are encouraged to listen critically, critique the reasoning of others, and justify their own solutions. The courses are designed to support a growth mindset regarding math and encourage students to engage in productive struggle; instructional materials explicitly and frequently remind students that mistakes are opportunities for learning and acquiring new skills. Together the course elements ensure the student grows as a mathematical thinker and masters the skills to succeed in life and work.

GIFTED AND TALENTED SCIENCE 6

Gifted and Talented Science 6 A explores natural objects and phenomenon on our planet, in our solar system, and beyond. This course uses multiple media sources to foster scientific inquiry and spark curiosity. The student will use models to investigate the relationship between the sun, moon, and Earth as they formulate explanations of lunar phases, eclipses, and seasons. Scientific views and evidence of how Earth and other objects in the universe were formed are presented as the student learns about galaxies, asteroids, and stars. The student will analyze and interpret data from rock layers and fossils giving clues to Earth's age. They will also discover how Earth's surface has changed over time as connections between Earth's energy systems and plate tectonics are made. Throughout the course, the student will engage in activities that promote critical thinking, explore increasingly complex conceptual relationships, and encourage them to be curious about the world they live in and explore ways to test and apply their ideas.

Gifted and Talented Science 6 B uses multiple media sources to foster scientific inquiry and spark curiosity. The student will discover ways that scientists use data, models, and technology gather information and make predictions. Throughout this course, the student will investigate topics such as weather, climate, and natural resources. The student will collect and analyze data to discover how changes to weather conditions occur. They will also use scientific models to investigate how atmospheric circulation produces climate patterns and how thermal energy transfer affects climate. This course explains renewable and non-renewable resources and the environmental implications associated with methods of managing and using energy resources. The student will identify and describe human activities that contribute to global climate change. The student will also learn about natural hazards and how scientists use historical data to forecast and prepare for future catastrophic events. Throughout the course, the student will engage in activities that promote critical thinking, explore increasingly complex conceptual relationships, and encourage them to be curious about the world they live in and explore ways to test and apply their ideas.

HEALTH AND PHYSICAL EDUCATION 6

The Health and Physical Education 6 course will provide the student with the foundation for concepts and skills necessary for lifelong health and physical fitness. In the health portion of the course, the student will be introduced to and assessed on various topics ranging from body systems to proper nutrition and fitness, as well as understanding what it means to be healthy. The student will also be introduced to skills that can be applied toward healthy behaviors. The physical education portion of the course will offer great freedom as the student will be able to choose a physical education regimen that will fit the student's individual needs. The student will be given a choice of three paths that place emphasis on lifelong activities as well as current fitness trends. Physical education lessons are geared toward a "physically fit" lifestyle that will aid the student in the years to come and ensure a higher quality of life.

LANGUAGE ARTS 6

In Language Arts 6 A, students will sharpen and strengthen their skills in reading, writing, listening, and speaking. The student is exposed to a wide variety of writing styles to create a sense of curiosity and excitement. During this course, the student will learn to make connections between readings, podcasts, radio clips, videos, and the world. The student will also expand an academic

vocabulary and build confidence through independent reading, peer model videos, and practice opportunities. The student will write expository and creative compositions and employ test-taking strategies that are effective for different types of learners.

In Language Arts 6 B, students will sharpen and strengthen their skills in reading, writing, listening, and speaking. The student is exposed to a wide variety of writing styles to create a sense of curiosity and excitement. During this course, the student will learn how to identify credible sources as well as compose argumentative and narrative essays using formal writing techniques. Students will also compare different types of media used to tell stories. These methods include textual, audio, and visual media types.

MATH 6

In Math 6 A, the student will learn, practice, and apply the fundamental skills and strategies that will help them grow into strong mathematical thinkers. Daily instruction supports student learning of core math concepts and development of procedural fluency regarding ordering numbers; working with whole numbers and decimals; ratios and percentages; rates and measurements; the coordinate plane; number theory and fractions; and adding and subtracting fractions. Students are encouraged to use visual representations of their thinking to bridge their understanding between the concrete and abstract, allowing patterns and mathematical principles to come to life. Peer Model videos throughout provide illustrations of a peer learning how to use and apply the target mathematical skill using a real-world example. 21st Century instruction further illustrates the connection of mathematical concepts to the real world while supporting students' development of skills, knowledge, and expertise they must master to succeed in work and life. Mathematical discussion prompts encourage students to revise misunderstanding, uncover nuances in application, make connections to prior knowledge, identify patterns, and engage with vocabulary. Students are encouraged to listen critically, critique the reasoning of others, and justify their own solutions. The course is designed to support a growth mindset regarding math and encourages students to engage in productive struggle; instructional materials explicitly and frequently remind students that mistakes are opportunities for learning and acquiring new skills. Together the course elements ensure the student grows as a mathematical thinker and masters the skills to succeed in work and life.

In Math 6 B, students will learn, practice, and apply the fundamental skills and strategies that will help them grow into strong mathematical thinkers. Daily instruction supports student learning of core math concepts and development of procedural fluency regarding multiplication and division of fractions, expressions, equations, inequalities, area and volume, coordinate geometry and nets, and statistics. Students are encouraged to use visual representations of their thinking to bridge their understanding between the concrete and abstract, allowing patterns and mathematical principles to come to life. Peer Model videos throughout provide illustrations of a peer learning how to use and apply the target mathematical skill using a real-world example. 21st Century instruction further illustrates the connection of mathematical concepts to the real world while supporting students' development of skills, knowledge, and expertise they must master to succeed in life and work. Mathematical discussion prompts encourage students to revise misunderstanding, uncover nuances in application, make connections to prior knowledge, identify patterns, and engage with vocabulary. Students are encouraged to listen critically, critique the reasoning of others, and justify their own solutions. The courses are designed to support a growth mindset regarding math and encourage students to engage in productive struggle; instructional materials explicitly and frequently remind students that mistakes are opportunities for learning and acquiring new skills. Together the course elements ensure the student grows as a mathematical thinker and masters the skills to succeed in life and work.

SCIENCE 6

Science 6 explores natural objects and phenomenon on our planet, in our Solar System, and beyond. This course uses multiple media sources to foster scientific inquiry and spark curiosity. The student will use models to explore the relationship between the Sun, Moon, and Earth and formulate explanations of lunar phases, eclipses, and seasons. Scientific views and evidence of how the earth and other objects in the universe were formed are presented as the student learns about galaxies, asteroids, and stars. The student will analyze and interpret data from rock layers and fossils giving clues to Earth's age. They will also discover how Earth has changed over time as the student makes connections between earth's energy systems and plate tectonics.

GRADE 7

ART 7

In Art 7, students explore the wide range and variety of visual arts. They learn the basic elements of art and principles of design and apply them in their own creative ways. The course culminates in a study of factors involved in evaluating and critiquing art.

CONNECTED LANGUAGE ARTS 7

In this course, the student will focus on reading, writing, and analyzing informational and narrative texts, as well as developing their vocabulary and grammatical knowledge. The student will read poetry by Lewis Carroll and Daniel Beatty, short stories, and informational texts on Rose Parks and Army Code.

In this course, the student will focus on reading, writing, and analyzing informational and narrative texts, as well as developing their vocabulary and grammatical knowledge. The student will read classics including Great Expectations and Peter Pan, as well as non-fiction historical texts.

CONNECTED SCIENCE 7

Connected Science 7 A uses multiple media sources to foster scientific inquiry and spark curiosity as the student explores topics such as cells, body systems, reproductive strategies, and genetics. The student will investigate cell structure in plants and animals and discover how organisms use cells to perform complex life functions. They will also identify and describe the functions of several body systems including the respiratory, circulatory, digestive, and excretory systems. Additionally, the student will evaluate reproductive strategies and genetics to discover the important roles they play in the survival of organisms.

Connected Science 7 B uses multiple media sources to foster scientific inquiry and spark curiosity. Throughout this course, the student will discover ways that scientists use data, models, and technology to gather and apply information. This course explores the role of plants and photosynthesis in the cycling of matter and the flow of energy into and out of organisms. The student will analyze and interpret data to determine the effects of resource availability on biodiversity among populations in an ecosystem. The topics of evolution, natural selection, and scientific classification are also presented throughout this course. The student will analyze and interpret data for patterns in the fossil record that document the change of life forms and examine genetic variations of a population over time. The student will also learn how scientists classify organisms based on similar characteristics.

EXPLORING MUSIC II

Exploring Music II is designed for students in grades 6–8, this course reviews and expands fundamental musicianship skills approached from a Western-Classical style, while aligning to the National Core Arts Standards. The student will review and expand basic skills and concepts of rhythm and notation that were introduced in Exploring Music I. The student will use classic repertoire to analyze compositional style and improve listening, notation, analysis, performance, and improvisation skills. With audio, visual, and interactive technologies, the course provides a unique and advanced learning experience. Exploring Music I is a prerequisite for this course.

GIFTED AND TALENTED LANGUAGE ARTS 7

In Gifted and Talented Language Arts 7 A, the student will focus on reading, writing, and analyzing informational and narrative texts, as well as developing their vocabulary and grammatical knowledge. The student will read poetry by Lewis Carroll and Daniel Beatty, short stories, and informational texts on Rosa Parks and Army Code. Throughout the course, the student will engage in activities that promote critical thinking, explore increasingly complex conceptual relationships, and encourage them to be curious about the world they live in and explore ways to test and apply their ideas.

In Gifted and Talented Language Arts 7 B, the student will focus on reading, writing, and analyzing informational and narrative texts, as well as developing their vocabulary and grammatical knowledge. The student will read classics including Great Expectations and Peter Pan, as well as non-fiction historical texts. Throughout the course, the student will engage in activities that promote critical thinking, explore increasingly complex conceptual relationships, and encourage them to be curious about the world they live in and explore ways to test and apply their ideas.

GIFTED AND TALENTED MATH 7

In Gifted and Talented Math 7 A, students will learn, practice, and apply the fundamental skills and strategies that will help them grow into strong mathematical thinkers. Daily instruction supports student learning of core math concepts and development of procedural fluency regarding addition and subtraction of rational numbers, multiplication and division of rational numbers, unit rates and proportions, using proportional relationships, algebraic expressions, one- and two-step equations, and multi-step equations. Students are encouraged to use visual representations of their thinking to bridge their understanding between the concrete and abstract, allowing patterns and mathematical principles to come to life. Peer Model videos throughout provide illustrations of a peer learning how to use and apply the target mathematical skill using a real-world example. 21st Century instruction further illustrates the connection of mathematical concepts to the real world while supporting students' development of skills, knowledge, and expertise they must master to succeed in life and work. Mathematical discussion prompts encourage students to revise misunderstanding, uncover nuances in application, make connections to prior knowledge, identify patterns, and engage with vocabulary. Students are encouraged to listen critically, critique the reasoning of others, and justify their own solutions. The courses are designed to support a growth mindset regarding math and encourage students to engage in productive struggle; instructional materials explicitly and frequently remind students that mistakes are opportunities for learning and acquiring new skills. Together the course elements ensure the student grows as a mathematical thinker and masters the skills to succeed in life and work.

In Gifted and Talented Math 7 B, the student will learn, practice, and apply the fundamental skills and strategies that will help them grow into strong mathematical thinkers. Daily instruction supports student learning of core math concepts and development of procedural fluency regarding inequalities; angle pairs; triangles; area and perimeter; surface area; volume; probability; and statistics. Students are encouraged to use visual representation of their thinking to bridge their understanding between the concrete and abstract, allowing patterns and mathematical principles to come to life. Peer Model videos throughout provide illustrations of a peer learning how to use and apply the target mathematical skill using a real-world example. 21st Century instruction further illustrates the connection of mathematical concepts to the real world while supporting students' development of skills, knowledge, and expertise they must master to succeed in work and life. Mathematical discussion prompts encourage students to revise misunderstanding, uncover nuances in application, make connections to prior knowledge, identify patterns, and engage with vocabulary. Students are encouraged to listen critically, critique the reasoning of others, and justify their own solutions. The course is designed to support a growth mindset regarding math and encourages students to engage in productive struggle; instructional materials explicitly and frequently remind students that mistakes are opportunities for learning and acquiring new skills. Together the course elements ensure the student grows as a mathematical thinker and masters the skills to succeed in work and life.

GIFTED AND TALENTED SCIENCE 7

Gifted and Talented Science 7 A uses multiple media sources to foster scientific inquiry and spark curiosity as the student explores topics such as cells, body systems, reproductive strategies, and genetics. The student will investigate cell structure in plants and animals and discover how organisms use cells to perform complex life functions. They will also identify and describe the functions of several body systems including the respiratory, circulatory, digestive, and excretory systems. Additionally, the student will evaluate reproductive strategies and genetics to discover the important roles they play in the survival of organisms. Throughout the course, the student will engage in activities that promote critical thinking, explore increasingly complex conceptual relationships, and encourage them to be curious about the world they live in and explore ways to test and apply their ideas.

Gifted and Talented Science 7 B uses multiple media sources to foster scientific inquiry and spark curiosity. Throughout this course, the student will discover ways that scientists use data, models, and technology to gather and apply information. This course explores the role of plants and photosynthesis in the cycling of matter and the flow of energy into and out of organisms. The student will analyze and interpret data to determine the effects of resource availability on biodiversity among populations in an ecosystem. The topics of evolution, natural selection, and scientific classification are also presented throughout this course. The student will analyze and interpret data for patterns in the fossil record that document the change of life forms and examine genetic variations of a population over time. The student will also learn how scientists classify organisms based on similar characteristics. Throughout the course, the student will engage in activities that promote critical thinking, explore increasingly complex conceptual relationships, and encourage them to be curious about the world they live in and explore ways to test and apply their ideas.

HEALTH AND PHYSICAL EDUCATION 7

The Health and Physical Education course will guide the student through material that will promote healthy, active lifestyles. Health topics include issues that are relevant to the age group, such as mental and emotional health, conflict resolution, and bullying. The student will also be immersed in the prevention and avoidance of drugs, alcohol, and tobacco. The student will receive the necessary strategies to help avoid the pitfalls of unhealthy and risky behaviors. The physical education portion of the course will offer great freedom as the student will be able to choose a physical education regimen that will fit the student's individual needs. The student will be given a choice of three paths that place emphasis on lifelong activities as well as current fitness trends. Physical education lessons are geared toward a "physically fit" lifestyle that will aid the student in the years to come and ensure a higher quality of life.

LANGUAGE ARTS 7

In Language Arts 7, the student will focus on reading, writing, and analyzing informational and narrative texts, as well as developing their vocabulary and grammatical knowledge. The student is exposed to a wide variety of writing styles to create a sense of curiosity and excitement.

MATH 7

In Math 7 A, students will learn, practice, and apply the fundamental skills and strategies that will help them grow into strong mathematical thinkers. Daily instruction supports student learning of core math concepts and development of procedural fluency regarding addition and subtraction of rational numbers, multiplication and division of rational numbers, unit rates and proportions, using proportional relationships, algebraic expressions, one- and two-step equations, and multi-step equations. Students are encouraged to use visual representations of their thinking to bridge their understanding between the concrete and abstract, allowing patterns and mathematical principles to come to life. Peer Model videos throughout provide illustrations of a peer learning how to use and apply the target mathematical skill using a real-world example. 21st Century instruction further illustrates the connection of mathematical concepts to the real world while supporting students' development of skills, knowledge, and expertise they must master to succeed in life and work. Mathematical discussion prompts encourage students to revise misunderstanding, uncover nuances in application, make connections to prior knowledge, identify patterns, and engage with vocabulary. Students are encouraged to listen critically, critique the reasoning of others, and justify their own solutions. The courses are designed to support a growth mindset regarding math and encourage students to engage in productive struggle; instructional materials explicitly and frequently remind students that mistakes are opportunities for learning and acquiring new skills. Together the course elements ensure the student grows as a mathematical thinker and masters the skills to succeed in life and work.

In Math 7 B, the student will learn, practice, and apply the fundamental skills and strategies that will help them grow into strong mathematical thinkers. Daily instruction supports student learning of core math concepts and development of procedural fluency regarding inequalities; angle pairs; triangles; area and perimeter; surface area; volume; probability; and statistics. Students are encouraged to use visual representation of their thinking to bridge their understanding between the concrete and abstract, allowing patterns and mathematical principles to come to life. Peer Model videos throughout provide illustrations of a peer learning how to

use and apply the target mathematical skill using a real-world example. 21st Century instruction further illustrates the connection of mathematical concepts to the real world while supporting students' development of skills, knowledge, and expertise they must master to succeed in work and life. Mathematical discussion prompts encourage students to revise misunderstanding, uncover nuances in application, make connections to prior knowledge, identify patterns, and engage with vocabulary. Students are encouraged to listen critically, critique the reasoning of others, and justify their own solutions. The course is designed to support a growth mindset regarding math and encourages students to engage in productive struggle; instructional materials explicitly and frequently remind students that mistakes are opportunities for learning and acquiring new skills. Together the course elements ensure the student grows as a mathematical thinker and masters the skills to succeed in work and life.

SCIENCE 7

Science 7 uses multiple media sources to foster scientific inquiry and spark curiosity as the student explores topics such as cells, body systems, reproductive strategies, and genetics. The student will investigate cell structure in plants and animals and discover how organisms use cells to perform complex life functions. They will also identify and describe the functions of several body systems including the respiratory, circulatory, digestive, and excretory systems. Additionally, the student will evaluate reproductive strategies and genetics to discover the important roles they play in the survival of organisms.

WORLD HISTORY

In the 7th grade World History course students will learn about World History from the origins of civilization to feudal Europe. Students will gain understanding of many civilizations as the grew, such as: Mesopotamia, Egypt, India, China, Greece, etc. You will also learn how to take efficient and effective lesson notes in order to be successful in the course, as well as how to format research papers and cite sources.

GRADE 8

AMERICAN HISTORY

The 8th grade American History course offers a broad survey of United States history from the pre-colonial period to the years before the Civil War. The course examines U.S. political, economic, and social history from a chronological point of view. Throughout the course, the student will make connections between historical events and their impact on the American people and landscape. The student will enhance social studies skills by completing activities that teach understanding primary sources, reading time lines and graphs, comparing and contrasting, recognizing bias, and more. Lessons are designed to develop the student's abilities to question, read, analyze, interpret, and evaluate different forms of information. The student will also practice geography skills by exploring the evolution of America's geography and its historical impact. Pearson’s American History provides the basis for instruction.

ART 8

In Art 8, students consider the preservation and protection of art. They then explore how international, national, and local art influences ideas, actions, cultures, and environments. Using this information, students build their own ideas of the role art plays in their lives.

CONNECTED LANGUAGE ARTS 8

In Connected Language Arts 8 A, the student studies and analyzes explanatory, informational, and argumentative texts. Throughout the course curiosity and critical thinking are encouraged as the student practices reading comprehension through analogy and

allusion in works by O.Henry and Roald Dahl. The student will learn to make connections between reading and the world around them as they read interesting texts about Female WWII Pilots and the Invention of the Popsicle. Their academic vocabulary will be expanded as they explore word choice and meaning to refine communication skills in reading, writing, listening, and speaking. This course presents strategies to strengthen writing skills through grammar, punctuation, and sentence and paragraph structure. The student will refine, reinforce and apply these skills though their own explanatory and persuasive compositions.

In Connected Language Arts 8 B, the student is exposed to a wide variety of writing styles that create a sense of curiosity and excitement. Throughout the course the student will explore and analyze several literary genres. They will read narrative works about the building of Manhattan and the evolution of the grocery bag and be enthralled by the suspense, and humor of Victor Hugo through the Hunchback of Notre Dame. The student will also explore character development and dramatic irony as they participate in fictional novel study. Then, they will sharpen their writing skills as they create their own narrative story. Additionally, this course provides the opportunity for the student to exercise curiosity and inquiry skills through short and long-term research as they conduct and present observations and conclusions from their own research project.

CONNECTED SCIENCE 8

Connected Science 8 A uses multiple media sources to foster scientific inquiry and spark curiosity as the student explores topics in the physical sciences. Throughout this course, the student will discover ways that scientists use data, models, and technology to gather and apply information. The student will learn about atomic composition and the properties of matter. They will also distinguish between chemical and physical changes in matter and investigate how thermal energy transfer affects particle motion in matter. This course examines the relationship between potential and kinetic energy as the student explores how mass and speed affect energy transfer. Additionally, the student will discover how different types of waves transmit light, sound, and other forms of energy both in the presence and absence of matter.

Connected Science 8 B uses multiple media sources to foster scientific inquiry and spark curiosity as the student studies elements of the physical sciences. Throughout this course, the student will discover ways that scientists use data, models, and technology to gather and apply information. This course investigate the relationship between force and motion as the student explores Newton's Laws of Motion. The student will learn about the unseen forces of gravity, magnetism, and electricity as they determine factors that affect the strength of these forces. The role of design in machines are also explored as the student investigates the relationship between force and work with regards to the transfer of mechanical energy.

EXPLORING MUSIC III

Exploring Music III is designed for students in grades 6–8, this course enhances the student's knowledge of musical cultures as he or she discovers a musical identity. Aligning to the National Core Arts Standards, this course provides the student with engaging opportunities to combine musical knowledge with an exploration of different art forms to create new personal works. The student will apply foundational knowledge of music to a variety of musical styles and cultures. With audio, visual, and interactive technologies, this course provides a unique and advanced learning experience. Exploring Music I and Exploring Music II are prerequisites for this course.

GIFTED AND TALENTED LANGUAGE ARTS 8

In Gifted and Talented Language Arts 8 A, the student studies and analyzes examples of explanatory, informational, and argumentative texts. Throughout the course curiosity, interpretation, and reflection are encouraged as the student practices reading comprehension through analogy and allusion in works by O.Henry and Roald Dahl. The student will learn to make connections between reading and the world around them as they read interesting texts about Female WWII Pilots and the Invention of the Popsicle. Their academic vocabulary and communication skills will be expanded through the exploration of word choice and meaning. This course presents strategies to strengthen writing skills through grammar, punctuation, and sentence and paragraph structure. The student will refine, reinforce and apply these skills though their own explanatory and persuasive compositions.

Throughout the course, the student will engage in activities that promote critical thinking, explore increasingly complex conceptual relationships, and encourage them to be curious about the world they live in and explore ways to test and apply their ideas.

In Gifted and Talented Language Arts 8 B, the student is exposed to a wide variety of writing styles that create a sense of curiosity and excitement. Throughout the course the student will explore and analyze several literary genres. They will read narrative works about the building of Manhattan and the evolution of the grocery bag and be enthralled by the suspense, and humor of Victor Hugo through the Hunchback of Notre Dame. The student will also explore character development and dramatic irony as they participate in fictional novel study. Then, they will sharpen their writing skills as they create their own narrative story. Additionally, this course provides the opportunity for the student to exercise curiosity and inquiry skills through short and long-term research as they conduct and present observations and conclusions from their own research project. Throughout the course, the student will engage in activities that promote critical thinking, explore increasingly complex conceptual relationships, and encourage them to be curious about the world they live in and explore ways to test and apply their ideas.

GIFTED AND TALENTED MATH 8

In Gifted and Talented Math 8 A, students will learn, practice, and apply the fundamental skills and strategies that will help them grow into strong mathematical thinkers. Daily instruction supports student learning of core math concepts and development of procedural fluency regarding the number system; exponent rules; scientific notation; roots and irrational numbers; triangles; cones, cylinders, and spheres; and right rectangular prisms and pyramids. Students are encouraged to use visual representations of their thinking to bridge their understanding between the concrete and abstract, allowing patterns and mathematical principles to come to life. Peer Model videos throughout provide illustrations of a peer learning how to use and apply the target mathematical skill using a real-world example. 21st Century instruction further illustrates the connection of mathematical concepts to the real world while supporting students' development of skills, knowledge, and expertise they must master to succeed in life and work. Mathematical discussion prompts encourage students to revise misunderstanding, uncover nuances in application, make connections to prior knowledge, identify patterns, and engage with vocabulary. Students are encouraged to listen critically, critique the reasoning of others, and justify their own solutions. The courses are designed to support a growth mindset regarding math and encourage students to engage in productive struggle; instructional materials explicitly and frequently remind students that mistakes are opportunities for learning and acquiring new skills. Together the course elements ensure the student grows as a mathematical thinker and masters the skills to succeed in life and work.

In Gifted and Talented Math 8 B, students will learn, practice, and apply the fundamental skills and strategies that will help them grow into strong mathematical thinkers. Daily instruction supports student learning of core math concepts and development of procedural fluency regarding transformations and congruence, transformations and similarity, solving linear equations, graphing linear equations, systems of linear equations, scatterplots and data analysis, and functions. Students are encouraged to use visual representations of their thinking to bridge their understanding between the concrete and abstract, allowing patterns and mathematical principles to come to life. Peer Model videos throughout provide illustrations of a peer learning how to use and apply the target mathematical skill using a real-world example. 21st Century instruction further illustrates the connection of mathematical concepts to the real world while supporting students' development of skills, knowledge, and expertise they must master to succeed in life and work. Mathematical discussion prompts encourage students to revise misunderstanding, uncover nuances in application, make connections to prior knowledge, identify patterns, and engage with vocabulary. Students are encouraged to listen critically, critique the reasoning of others, and justify their own solutions. The courses are designed to support a growth mindset regarding math and encourage students to engage in productive struggle; instructional materials explicitly and frequently remind students that mistakes are opportunities for learning and acquiring new skills. Together the course elements ensure the student grows as a mathematical thinker and masters the skills to succeed in life and work.

GIFTED AND TALENTED SCIENCE 8

Gifted and Talented Science 8 A uses multiple media sources to foster scientific inquiry and spark curiosity as the student explores topics in the physical sciences. Throughout this course, the student will discover ways that scientists use data, models, and

technology to gather and apply information. The student will learn about atomic composition and the properties of matter. They will also distinguish between chemical and physical changes in matter and investigate how thermal energy transfer affects particle motion in matter. This course examines the relationship between potential and kinetic energy as the student explores how mass and speed affect energy transfer. Additionally, the student will discover how different types of waves transmit light, sound, and other forms of energy both in the presence and absence of matter. Throughout the course, the student will engage in activities that promote critical thinking, explore increasingly complex conceptual relationships, and encourage them to be curious about the world they live in and explore ways to test and apply their ideas.

Gifted and Talented Science 8 B uses multiple media sources to foster scientific inquiry and spark curiosity as the student studies elements of the physical sciences. Throughout this course, the student will discover ways that scientists use data, models, and technology to gather and apply information. This course investigate the relationship between force and motion as the student explores Newton's Laws of Motion. The student will learn about the unseen forces of gravity, magnetism, and electricity as they determine factors that affect the strength of these forces. The role of design in machines are also explored as the student investigates the relationship between force and work with regards to the transfer of mechanical energy. Throughout the course, the student will engage in activities that promote critical thinking, explore increasingly complex conceptual relationships, and encourage them to be curious about the world they live in and explore ways to test and apply their ideas.

HEALTH AND PHYSICAL EDUCATION 8

The Health and Physical Education 8 course will introduce the student to vital health concepts and reinforce health skills that promote healthy behaviors. The student will learn the functions and structures of various body systems as well as the care and prevention of disease to these systems. The student will learn about communicable diseases and how to prevent the spread of such diseases. The student will also be able to demonstrate the importance of proper nutrition by planning and analyzing meals and nutritional values. Proper actions in emergencies and safety procedures will also be included. The physical education portion of the course will offer great freedom as the student will be able to choose a physical education regimen that will fit the student's individual needs. The student will be given a choice of three paths that place emphasis on lifelong activities as well as current fitness trends. Physical education lessons are geared toward a "physically fit" lifestyle that will aid the student in the years to come and ensure a higher quality of life.

LANGUAGE ARTS 8

In Language Arts 8 A, the student studies and analyzes explanatory, informational, and argumentative texts. Throughout the course curiosity and critical thinking are encouraged as the student practices reading comprehension through analogy and allusion. The student will learn to make connections between reading and the world around them as they read interesting texts. Their academic vocabulary will be expanded as they explore word choice and meaning to refine communication skills in reading, writing, listening, and speaking. This course presents strategies to strengthen writing skills through grammar, punctuation, and sentence and paragraph structure. The student will refine, reinforce and apply these skills though their own explanatory and persuasive compositions.

In Language Arts 8 B, the student is exposed to a wide variety of writing styles that create a sense of curiosity and excitement. Throughout the course the student will explore and analyze several literary genres including narrative, poetry, suspense, and humor. The student will also explore character development and dramatic irony as they participate in fictional novel study. Then, they will sharpen their writing skills as they create their own narrative story. Additionally, this course provides the opportunity for the student to exercise curiosity and inquiry skills through short and long-term research as they conduct and present observations and conclusions from their own research project.

MATH 8

In Math 8 A, students will learn, practice, and apply the fundamental skills and strategies that will help them grow into strong mathematical thinkers. Daily instruction supports student learning of core math concepts and development of procedural fluency regarding the number system; exponent rules; scientific notation; roots and irrational numbers; triangles; cones, cylinders, and spheres; and right rectangular prisms and pyramids. Students are encouraged to use visual representations of their thinking to bridge their understanding between the concrete and abstract, allowing patterns and mathematical principles to come to life. Peer Model videos throughout provide illustrations of a peer learning how to use and apply the target mathematical skill using a real-world example. 21st Century instruction further illustrates the connection of mathematical concepts to the real world while supporting students' development of skills, knowledge, and expertise they must master to succeed in life and work. Mathematical discussion prompts encourage students to revise misunderstanding, uncover nuances in application, make connections to prior knowledge, identify patterns, and engage with vocabulary. Students are encouraged to listen critically, critique the reasoning of others, and justify their own solutions. The courses are designed to support a growth mindset regarding math and encourage students to engage in productive struggle; instructional materials explicitly and frequently remind students that mistakes are opportunities for learning and acquiring new skills. Together the course elements ensure the student grows as a mathematical thinker and masters the skills to succeed in life and work.

In Math 8 B, students will learn, practice, and apply the fundamental skills and strategies that will help them grow into strong mathematical thinkers. Daily instruction supports student learning of core math concepts and development of procedural fluency regarding transformations and congruence, transformations and similarity, solving linear equations, graphing linear equations, systems of linear equations, scatterplots and data analysis, and functions. Students are encouraged to use visual representations of their thinking to bridge their understanding between the concrete and abstract, allowing patterns and mathematical principles to come to life. Peer Model videos throughout provide illustrations of a peer learning how to use and apply the target mathematical skill using a real-world example. 21st Century instruction further illustrates the connection of mathematical concepts to the real world while supporting students' development of skills, knowledge, and expertise they must master to succeed in life and work. Mathematical discussion prompts encourage students to revise misunderstanding, uncover nuances in application, make connections to prior knowledge, identify patterns, and engage with vocabulary. Students are encouraged to listen critically, critique the reasoning of others, and justify their own solutions. The courses are designed to support a growth mindset regarding math and encourage students to engage in productive struggle; instructional materials explicitly and frequently remind students that mistakes are opportunities for learning and acquiring new skills. Together the course elements ensure the student grows as a mathematical thinker and masters the skills to succeed in life and work.

SCIENCE 8

Science 8 uses multiple media sources to foster scientific inquiry and spark curiosity as the student explores topics in the physical sciences. Throughout this course, the student will discover ways that scientists use data, models, and technology to gather and apply information. The student will learn about atomic composition and the properties of matter. They will also distinguish between chemical and physical changes in matter and investigate how thermal energy transfer affects particle motion in matter. This course examines the relationship between potential and kinetic energy as the student explores how mass and speed affect energy transfer. Additionally, the student will discover how different types of waves transmit light, sound, and other forms of energy both in the presence and absence of matter.

MIDDLE SCHOOL ELECTIVES

HOME LIFE

In this course, the student will choose from a selection of project-based activities designed to develop skills for daily living. Topics will include a variety of activities appropriate for all grade levels. Each project will include a portfolio assignment. Home Life has been designed to allow families with multiple students to work together on a series of home-based projects. These include cooking, crafts, sewing, home maintenance, family outings, and genealogy. Each project will be comprised of approximately four to six two-

hour sessions that may be completed on a weekly basis or chunked together in a weekend or two. To receive credit, students must complete five, choosing the activities that best suit their family situation and interests. This course will be graded by completion. Students must choose and complete at least five projects from a variety of topics to receive credit for this course. Students can submit more than five projects but they are only required to submit five. Projects will be submitted through the portfolio Drop Box at the end of the course. These projects are meant to be enjoyable activities that provide an opportunity for hands-on learning and valuable family time!

MIDDLE SCHOOL CAREER EXPLORATION 1

The Middle School Exploration 1 course allows students to begin exploring options in fields such as teaching, business, government, hospitality, health science, IT, and more. They'll align their interests, wants, and needs to career possibilities, including the required education for each.

MIDDLE SIGN LANGUAGE

In the Middle Sign Language course, students will be introduced to the fundamental concepts of American Sign Language. The student will explore vocabulary, grammar, and conversational skills using basic signing and fingerspelling techniques, and will begin to learn about Deaf culture and the Deaf community. A webcam and recording device are required for this course.

MIDDLE SPANISH I

Middle Spanish I is an introductory-level course that will introduce the student to Spanish. The units are designed to introduce the student to Spanish language and culture through familiar topics such as my family, my week, and food. Culture is presented throughout the course to help the student make connections between his culture and the culture of people in the Spanish-speaking world.

MIDDLE SPANISH II

Middle Spanish II enables the student to further develop the communicative skills of listening, speaking, reading, and writing of Spanish at a more advanced level. The units are designed to develop the student's knowledge of Spanish language and culture through familiar topics such as my school, my family, and my neighborhood. Culture is presented throughout the course to help the student make connections between his culture and the culture of people in the Spanish-speaking world.

HIGH SCHOOL

HIGH SCHOOL COURSES

ALGEBRA I

In Algebra I, students will gain a foundational understanding of the real number system, expressions, equations, and inequalities. The student will be taught to solve simple and multi-step equations and inequalities and represent those solutions graphically. In addition, students will explore linear or nonlinear functions and represent those functions on the coordinate plane. Finally, the student will solve systems of equations and inequalities and represent those solutions graphically.

ALGEBRA II

In Algebra II. students will review and expand on her learning from previous algebra courses. The beginning units will focus mostly on the equation and the inequality. The student will write, solve, and graph these in a variety of real-world scenarios. The last few units will focus on types of functions. The student will continue her study of quadratic functions from previous algebra courses, but will expand this to include exponential and logarithmic functions. As before, the student will write, solve, and graph these functions. Use of a graphing calculator is encouraged.

AMERICAN GOVERNMENT

In American Government, the student will learn, practice, and apply the fundamental skills and strategies that will help them grow into critical explorers of civics and American government. The course focuses on a variety of topics, including the Constitution, the structure and function of government, civil rights, economic policy, politics, and participation in the political process. American Government instruction is presented in close alignment with the national and state standards. Daily instruction supports student learning of core government and civics content as well as critical thinking and literacy skills. Instruction is presented in two modes: Peer Model, in which students view a video of a peer learning how to use and apply the target skill or concept, and 21st Century, in which the student gains proficiency in the skills, knowledge, and expertise needed to succeed in work and life. Text assets and visual media are used frequently throughout the course to allow the student to gain experience in reading and interpreting data from a variety of sources. Students put an inquiry-based approach into practice by working directly with these assets through the lens of unit and lesson themes as well as specific learning goals. Check-In and Practice activities allow students to confirm understanding, resolve misconceptions, and apply their learning to new situations. Together the course elements ensure the student gains an awareness of the structure and function of American government, grows as a critical thinker and eventual participant in the political process, and masters the skills to succeed in work and life.

ANATOMY AND PHYSIOLOGY

In Anatomy and Physiology A students will gain an understanding of the relationship between anatomy and physiology. They will learn how to read the body's story through understanding cell structure and their processes, and discover the functions and purposes of the skeletal, muscular, nervous, and cardiovascular systems, as well as diseases that affect those systems.

In Anatomy and Physiology B, students will examine the form and function of even more body systems. Learn about the structure, function, and interrelation between the lymphatic, immune, respiratory, digestive, urinary, and endocrine systems. The reproductive system is also discussed along with hereditary traits and genetics. And discover the importance of accurate patient documentation as well as the technology used in the industry.

AP BIOLOGY

AP Biology is taught at the same level as a first-year college biology class. In this course, the student will develop a framework for biology and gain a deeper understanding of science as a process. Some of the major themes throughout this course include organic molecules and free energy changes, prokaryotic and eukaryotic cells, cellular energetics, heredity, and molecular genetics.

AP CALCULUS AB

In Calculus AB, students will complete the first semester of coursework similar to a first-year college-level calculus course. This course covers the framework, mathematical practices, and learning objectives for an AP® Calculus AB course as recommended by the College Board. This course provides experience with the methods and applications of calculus and effectively prepares the student to take the AP Calculus AB exam in the spring. The overarching topics in this course are limits, continuity, derivatives, methods of finding derivatives, and applications of derivatives. The student will interact with lesson content, multimedia

presentations, an online textbook, and a graphing utility to meet learning goals throughout the course. Featured learning strategies in this course include direct instruction, regular checks and practices, discussions, portfolios, and a practice assessment for the AP Calculus AB exam.

AP COMPUTER SCIENCE PRINCIPLES

The AP Computer Science Principles A course develops computational thinking practices that students use to problem solve and to critically analyze innovations in computing. Students learn advanced computer science principles by completing rigorous computer game projects. They plan, design, code, and test software using the scripting language GML in GameMaker: Studio. Students gain a deep understanding of the global impact of the Internet through the study of game design, game programming, and the fast growing and diverse global video game industry. This course emphasizes building computer science vocabulary and applying computer science principles and essential knowledge of coding practices. Students engage in a variety of activities where they design, code, iterate, and share playable games in a 2d environment defined through the course.

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AP ENGLISH LANGUAGE AND COMPOSITION

In AP English Language and Composition A, students investigate rhetoric and its impact on culture through analysis of notable fiction and nonfiction texts, from pamphlets to speeches to personal essays. The equivalent of an introductory college-level survey class, this course prepares students for the AP exam and for further study in communications, creative writing, journalism, literature, and composition. Students explore a variety of textual forms, styles, and genres. By examining all texts through a rhetorical lens, students become skilled readers and analytical thinkers. Focusing specifically on language, purpose, and audience gives them a broad view of the effect of text and its cultural role. Students write expository and narrative texts to hone the effectiveness of their own use of language, and they develop varied, informed arguments through research. Throughout the course, students are evaluated with assessments specifically designed to prepare them for the content, form, and depth of the AP Exam. AP English Language and Composition is recommended for 11th and 12th grade students. This course has been authorized by the College Board® to use the AP designation.

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AP ENGLISH LITERATURE AND COMPOSITION

The AP® English Literature and Composition course provides high school students with college-level instruction in reading, interpreting, and analyzing a range of imaginative texts. The student will become a skilled reader of literature written in various periods, disciplines, and styles. The student will learn about elements of poetry and the novel such as language, style, and tone, as well as become immersed in a study of drama involving William Shakespeare's King Lear. In addition, the student will deepen understanding of language, structure, and style by composing a variety of written texts—both formal and informal—that use literary tools and structures to analyze, argue, and inform. This course effectively prepares the student for the AP English Literature and Composition exam by enabling reading, writing, and comprehension of complex texts, while developing further communication skills on a college level.

AP ENVIRONMENTAL SCIENCE

AP Environmental Science A provides students with the scientific principles, concepts, and methodologies required to understand the interrelationships of the natural world. The course draws upon various disciplines, including geology, biology, environmental studies, environmental science, chemistry, and geography in order to explore a variety of environmental topics. Topics explored include natural systems on Earth; biogeochemical cycles; the nature of matter and energy; the flow of matter and energy through living systems; populations; communities; ecosystems; ecological pyramids; renewable and nonrenewable resources; land use; biodiversity; pollution; conservation; sustainability; and human impacts on the environment. The equivalent of an introductory college-level science course, AP Environmental Science prepares students for the AP exam and for further study in science, health sciences, or engineering. AP Environmental Science requires the completion of hands-on lab activities and has been approved by the College Board as meeting all requirements for a laboratory science course. This course has been authorized by the College Board® to use the AP designation.

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AP HUMAN GEOGRAPHY

The AP® Human Geography course provides high school students with college-level instruction in using a spatial perspective to study how humans understand and use Earth’s surface. The student will become skilled in interpreting maps and geospatial data in order to draw conclusions about what is revealed and hidden. The student will hone analysis skills by learning to recognize, interpret, and assess patterns related to population, migration, folk and popular culture, language and religion, and politics. This course effectively prepares the student for the AP Human Geography exam by providing practice in the skills necessary to apply geographic concepts, interpret data, and synthesize information in both multiple-choice and constructed-response formats.

AP MACROECONOMICS

In AP Macroeconomics students learn why and how the world economy can change from month to month, how to identify trends in our economy, and how to use those trends to develop performance measures and predictors of economic growth or decline. They'll also examine how individuals, institutions, and influences affect people, and how those factors can impact everyone's life through employment rates, government spending, inflation, taxes, and production. The equivalent of a 100-level college-level class, this

course prepares students for the AP exam and for further study in business, political science, and history. This course has been authorized by the College Board® to use the AP designation. *Advanced Placement® and AP® are registered trademarks and/or owned by the College Board, which was not involved in the production of, and does not endorse this product.

AP MICROECONOMICS

In AP Microeconomics students study the behavior of individuals and businesses as they exchange goods and services in the marketplace. Students will learn why the same product costs different amounts at different stores, in different cities, at different times. They'll also learn to spot patterns in economic behavior and how to use those patterns to explain buyer and seller behavior under various conditions. Microeconomics studies the economic way of thinking, understanding the nature and function of markets, the role of scarcity and competition, the influence of factors such as interest rates on business decisions, and the role of government in promoting a healthy economy. The equivalent of a 100-level college course, AP Microeconomics prepares students for the AP exam and for further study in business, history, and political science. This course has been authorized by the College Board® to use the AP designation. *Advanced Placement® and AP® are registered trademarks and/or owned by the College Board, which was not involved in the production of, and does not endorse this product.

AP PSYCHOLOGY

AP Psychology provides an overview of current psychological research methods and theories. Students will explore the therapies used by professional counselors and clinical psychologists and examine the reasons for normal human reactions: how people learn and think, the process of human development and human aggression, altruism, intimacy, and self-reflection. They will study core psychological concepts, such as the brain and sense functions, and learn to gauge human reactions, gather information, and form meaningful syntheses. Along the way, students will also investigate relevant concepts like study skills and information retention. The equivalent of an introductory college-level survey course, AP Psychology prepares students for the AP exam and for further studies in psychology or life sciences. This course has been authorized by the College Board® to use the AP designation.

AP SPANISH LANGUAGE AND CULTURE

In AP Spanish Language and Culture A, students practice perfecting their Spanish speaking, listening, reading, and writing skills. They study vocabulary, grammar, and cultural aspects of the language, and then apply what they learn in extensive written and spoken exercises. The course addresses the broad themes of Global Challenges, Science and Technology, Contemporary Life, Personal and Public Identities, Families and Communities, and Beauty and Aesthetics. By the end of the course, students will have an expansive vocabulary, a solid, working knowledge of all verb forms and tenses, strong command of other language structures, and an ability to use language in many different contexts and for varied purposes. The equivalent of a college-level language course, AP Spanish Language prepares students for the AP exam and for further study of Spanish language, culture, or literature. This course has been authorized by the College Board® to use the AP designation. *Advanced Placement® and AP® are registered trademarks and/or owned by the College Board, which was not involved in the production of, and does not endorse this product.

In AP Spanish Language and Culture B, students practice perfecting their Spanish speaking, listening, reading, and writing skills. They study vocabulary, grammar, and cultural aspects of the language, and then apply what they learn in extensive written and spoken exercises. The course addresses the broad themes of Global Challenges, Science and Technology, Contemporary Life, Personal and Public Identities, Families and Communities, and Beauty and Aesthetics. By the end of the course, students will have an expansive vocabulary, a solid, working knowledge of all verb forms and tenses, strong command of other language structures, and an ability to use language in many different contexts and for varied purposes. The equivalent of a college-level language course, AP Spanish Language prepares students for the AP exam and for further study of Spanish language, culture, or literature. This course has been authorized by the College Board® to use the AP designation. *Advanced Placement® and AP® are registered trademarks and/or owned by the College Board, which was not involved in the production of, and does not endorse this product.

AP STATISTICS

AP Statistics A gives students hands-on experience collecting, analyzing, graphing, and interpreting real-world data. They will learn to effectively design and analyze research studies by reviewing and evaluating real research examples taken from daily life. The next time they hear the results of a poll or study, they will know whether the results are valid. As the art of drawing conclusions from imperfect data and the science of real-world uncertainties, statistics plays an important role in many fields. The equivalent of an introductory college-level course, AP Statistics prepares students for the AP exam and for further study in science, sociology, medicine, engineering, political science, geography, and business. This course has been authorized by the College Board to use the AP designation. *Advanced Placement® and AP® are registered trademarks and/or owned by the College Board, which was not involved in the production of, and does not endorse this product.

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AP UNITED STATES GOVERNMENT AND POLITICS

The AP® United States Government and Politics course provides high school students with college-level instruction in using disciplinary practices to examine key ideas, institutions, and behaviors in American government. The student will look critically at the fundamental beliefs and philosophies that shaped American government and how those ideas have been interpreted and applied throughout history. The student will develop a deep understanding of the U.S. Constitution and the American political system—both its formal and informal processes and procedures. In addition, the student will examine specific governmental institutions, policies, interactions, and behaviors within the political system. Through study of each of these areas, the student will hone reasoning skills by developing evidence-based arguments, interpreting various types of data, and analyzing key documents, including foundational documents and Supreme Court decisions. This course effectively prepares the student for the AP United States Government and Politics exam by providing practice in the skills necessary to draw reasoned conclusions in both multiple-choice and constructed-response formats.

AP UNITED STATES HISTORY

The AP® United States History course provides high school students with college-level instruction in using disciplinary practices and historical reasoning to examine the history of the United States from approximately 1491 to the present. The student will look critically at how the American identity has developed over the course of American history and how it has been informed by the changing nature of American culture and societal structures and norms. Students will recognize and interpret patterns of migration and settlement—both to and within the United States—and how those patterns impacted and were impacted by aspects of regional geography and environment. The student will also consider political and economic patterns and relationships in American history, both within the nation and with the global community at large. Through their study of each of these areas, the student will hone reasoning skills to contextualize patterns and events, identify causation and continuity, and analyze change over time. The course is presented both chronologically with content divided into nine time periods, as well as thematically to reinforce that key themes form connections between different regions and time periods in American history. This course effectively prepares students for the AP United States History exam by providing practice in the skills necessary to analyze primary and secondary sources, construct evidence-based arguments, and draw reasoned conclusions in both multiple-choice and constructed-response formats.

ART AND WORLD CULTURES

Who is the greatest artist of all time? Is it Leonardo DaVinci? Claude Monet? Michelangelo? Pablo Picasso? Is the greatest artist of all time someone whose name has been lost to history? In the Art and World Cultures course, students will learn about some of the greatest artists while also creating art, including digital art. The student will explore the basic principles and elements of art, learn how to critique art, and examine some of the traditional art of the Americas, Africa, and Oceania in addition to the development of Western art.

ART HISTORY

In Art History A, the student will take up the question “What is art?” as he explores the artistic endeavors of early civilizations. Early in the course, the student will explore some of the basic elements and principles of art and its role in human history and the development of culture. He will also think about the ways that a work of art interacts with human sensory perception to produce a particular effect, as well as various other factors that affect the interpretation of a work of art. Once the student has obtained a basic foundation in art theory, he will begin to examine the history of art from its earliest manifestations in prehistoric times up through the ancient Egyptian civilization.

In Art History B, the student will build upon his basic foundation in art theory to examine the history of art. He will trace the history of art from ancient Greece to the Roman Empire. Along the way, the student will encounter art forms such as pottery, architecture, and sculpture. By the end of the course, the student will not only have acquired a knowledge of ancient art history, the student will also have a better understanding of art as both a reflection and engine of history.

BIOLOGY

During the Biology course, students will study the science of life. The student will explore the idea that living things are extremely diverse in form, yet are unified by certain core characteristics that they all share. In learning about these core characteristics, the student will be able to critically evaluate data and information related to biological problems, connect many ideas to the student's own life, and see the world in a new way.

BUSINESS APPLICATIONS

Business Applications prepares students to succeed in the workplace. Students begin by establishing an awareness of the roles essential to an organization's success, and then work to develop an understanding of professional communications and leadership skills. In doing so, students gain proficiency with word processing, email, and presentation management software. This course allows students to explore careers in business while learning skills applicable to any professional setting. Through a series of hands-on activities, students will create, analyze, and critique reports, letters, project plans, presentations, and other professional communications.

CALCULUS

Calculus A introduces limits, differentiation, and applications of differentiation. The student will find and evaluate finite and infinite limits graphically, numerically, and analytically. The student will find derivatives using a variety of methods including the chain rule and implicit differentiation. Then the student will use the first derivative test and the second derivative test to analyze and sketch functions. Finally, the student will find derivatives using a variety of methods including substitution. The use of a graphing calculator is considered an integral part of the course and the student will use a graphing calculator throughout this course.

Calculus B introduces integration of functions, differential equations, and applications of integration. The student will calculate antiderivatives using a variety of methods including substitution. The student will evaluate integrals using a variety of methods including numerical integration. Then the student will understand and apply Riemann sums, definite integrals, and the Fundamental

Theorem of Calculus. In particular, the student will differentiate and integrate logarithmic, exponential, and inverse trigonometric functions. The student will solve simple differential equations, which can be solved by separation of variables, and use the calculations to solve applied problems. The student will use integration to determine the area between two curves, volume, and surface area. Finally, the student will apply integration to determine work, center of mass, and fluid force.

CAREER PLANNING AND SKILL DEVELOPMENT

As a high school student, it may seem like entering the workforce is right around the corner. It's important that you're prepared. The Career Planning and Skill Development course will introduce you to the workforce by having you explore your interests, values, and skills. Knowing yourself better in this way will help you plan for your future career. As part of this planning process, you will learn about a variety of career fields—from business, to education, to public service. Many career fields may interest you. The course also teaches you the important task of finding a job. You will learn how to write a cover letter and resume, fill out a job application, and act in an interview. You will learn the qualities of a successful employee, and additional career-related skills, such as problem-solving and communication.

CHEMISTRY

In Chemistry A, the student will explore the fundamental concepts of chemistry, while engaging in hands-on and virtual lab experiments, and interdisciplinary problem-solving activities. The student will build on prior knowledge to learn how to model the structure of an atom, analyze the periodic table of elements, identify simple chemical reactions and investigate particulate electrical forces. The course provides many opportunities for the student to apply these concepts to real-world situations.

In Chemistry B, the student will explore the fundamental concepts of chemistry, while engaging in hands-on and virtual lab experiments, and interdisciplinary problem-solving activities. The student will build on prior knowledge to learn about how energy is transformed in chemical reactions, construct explanations of how energy and matter are related, apply the conversation of mass to calculate and compare quantities of substances in reactions, and develop models of nuclear processes.

COLLEGE PREP WITH ACT

The College Prep with ACT course is intended to prepare the student to take the ACT test. As the student works through the course, he will focus on learning more about his strengths and weaknesses as well as learn test-taking strategies that are specific to the ACT test. That way, when the student takes the actual test, the scores will be a good representation of the student's abilities.

COLLEGE PREP WITH SAT

The College Prep with SAT course will help the student navigate through the Official SAT Practice on the Khan Academy website, access four full SAT practice tests and multiple practice quizzes, and learn the necessary skills in order to be well-prepared to take the SAT test. This course also includes several lessons on other critical aspects of preparing for college, including developing the college resume, writing effective personal essays, and requesting letters of recommendation. This course is intended to prepare the student to take the SAT test. As the student works through the course, he will focus on learning more about his strengths and weaknesses as well as learn test-taking strategies that are specific to the SAT test. That way, when the student takes the actual test, the scores will be a good representation of the student's abilities. Finally, the student will submit a College Planning Portfolio, which will reflect the areas for improvement that the student has identified throughout this course.

CONSUMER MATH

In the Consumer Math course, the student will learn that money is lost or gained depending upon the information a consumer has to help him make informed decisions. Retailers, banks, and credit card companies may not provide consumers with all the information they need to make good decisions. By the end of this course, the student will understand the history of money, define fixed costs and discretionary spending, understand the importance of savings, and recognize the dangers of debt. This course will ask the student to look hard at his financial choices including spending patterns, purchasing motivations, and how to make some difficult decisions.

DIGITAL PHOTOGRAPHY I

Have you ever wondered how professional photographers manage to take such sensational pictures? How are they able to find just the right way to capture an image or moment in time? Perhaps you've even wondered why your own pictures don't meet that standard. Digital Photography I A will answer these questions and help the student understand more about the basics of photography. Learning about aperture, shutter speed, lighting, and composition is key for any serious photographer and will help the student gain the confidence and knowledge he needs to become one. The student will not only follow photography through its history but also gain a basic understanding of camera functions, techniques, and what it takes to shoot quality portraits, close-ups, action shots, and landscapes.

Let's further develop your photography skills by learning more professional tips, tricks, and techniques to elevate your images. In the Digital Photography I B course, the student will explore various photographic styles, themes, genres, and artistic approaches. Learn more about photojournalism and how to bring your photos to life, and using this knowledge, build a portfolio of your work to pursue a career in this field!

EARTH SCIENCE

In the Earth Science course, the student will learn about natural resources and explore issues surrounding human management of resources. Topics of study include water resources, energy resources, and rock, mineral, and land resources. The student will investigate the impact of resource consumption on humans and the environment. The student will also explore Earth's processes of rock and mineral formation and plate tectonics.

ENGLISH I

In the English I course, the student will take an in-depth look at a variety of literature selections. In reading and responding to these diverse selections, the student will gain a thorough understanding of fiction and nonfiction genres, including short stories, essays, poetry, and drama. The student will also read Jack London's The Call of the Wild.

This selection enables the student to explore universal themes and make connections between the characters' experiences and his own. Harper Lee's To Kill a Mockingbird may be read instead of The Call of the Wild. Writing instruction focuses on analytical and expository writing but also provides opportunities for the student to write creatively.

ENGLISH II

In the English II course, the student will explore the timeless themes of world literature, including works from the Americas, Europe, and Africa. In reading these diverse selections, the student will gain a thorough understanding of fiction genres, including classics, contemporary fiction, poetry, and drama. The student will also read Mark Twain's Adventures of Huckleberry Finn. John Steinbeck's novella Of Mice and Men may be read instead of Adventures of Huckleberry Finn. In reading these American literature selections and creating a multimedia presentation, the student will understand longer works of literature in their historical and literary context.

Writing instruction guides the student through the process of composing expository and analytical essays. It also provides opportunities for the student to write creatively; the student will compose a short story and poem.

ENGLISH III

In the English III course, the student will focus on literary movements from American literature, and trace the chronology of national literature from the early American and colonial period through the periods of realism and regionalism. In reading these diverse selections, the student will gain a thorough understanding of fiction, including short stories, poetry and drama, as well as nonfiction genres, including the oral tradition, seminal historical documents, and speeches. The student will also read Lorraine Hansberry's play A Raisin in the Sun. Jerome Lawrence and Robert E. Lee's play The Night Thoreau Spent in Jail may be read instead of A Raisin in the Sun. In reading these American plays and composing a dramatic scene, the student will understand drama in its historical and literary context.

ENGLISH IV

In the English IV course, the student continues to explore a variety of literature selections from British literature, including well-known works. The student will learn strategies for reading lyric poetry and study the characteristics of reflective essays. The student will analyze poetry, short stories, and essays from the Romantic Period, Victorian Age, and Modern Era and will determine how the historical context affected the thematic material and writing style from each era. Writing instruction focuses on literary analysis, including in-depth instruction in the process of writing a research paper. This project teaches the student to critically analyze primary and secondary sources and to effectively support his ideas with information gathered from outside sources.

ENVIRONMENTAL SCIENCE

The Environmental Science course offers the student an opportunity to gain an understanding of the concepts fundamental to environmental science. These concepts are keys that will help unlock our abilities to safeguard resources, manage waste, reduce pollution, protect the food chain, adapt to changing fuel needs, and champion our planet on all levels – from the conscientious management of the smallest household to the protection of the largest biospheres.

EXPLORATIONS IN MATHEMATICS

The Explorations in Mathematics A course is designed to provide the student with a solid mathematics foundation. The student will explore properties of rational numbers including divisibility patterns, prime factorization, greatest common factor, and least common multiple. The student will add, subtract, multiply, and divide rational numbers. Then, the student will identify and solve expressions and equations using variables. Finally, the student will use properties, including the Associative Property, Commutative Property, and Distributive Property, to solve and simplify equations.

The Explorations in Mathematics B course is designed to provide the student with a solid mathematics foundation. The student will be introduced to the properties of equality to solve one-step and multi-step equations. Then, the student will explore absolute value and how to compare values using absolute value. The student will examine the applications of one-step and multiple step equations. Finally, the student will be introduced to probability and statistics concepts including direct and inverse variation, mean, median, mode, counting principle, permutations, and combinations.

FRENCH I

The goal of the French I course is to give the student basic listening, speaking, reading, and writing skills through interesting and engaging activities. This course is organized into five topics including greetings, calendar, weather, time, and colors. The student will learn to talk about himself and other people, describe his surroundings, and use numbers for dates and times. The student will be introduced to regular verbs in the present tense and will practice simple grammatical structures in innovative and interesting ways with a variety of learning styles in mind. Culture is presented throughout the course to help the student understand the context of the language and the perspectives of the French-speaking world.

FRENCH II

In the French II course, the student will be introduced to a variety of areas of language learning. The student will learn listening, speaking, reading, and writing skills through a variety of activities. This course is organized into five topics: daily routine, animals, hobbies, the body, and descriptions. Throughout this course, the student will learn to express himself using an ever increasing vocabulary, present-tense verbs, articles, and adjectives. Grammar is introduced and practiced in innovative and interesting ways with a variety of learning styles in mind. Elements of the French-speaking world and culture appear throughout the course, including people, geographical locations, and histories.

FRENCH III

In the French III A course, the student will continue to improve his listening, speaking, reading, and writing skills through a variety of activities. The course is organized into five topics: feelings, transportation, work, countries, and the future. Throughout this course, the student will build on his previous French knowledge. The student will learn additional vocabulary, verb tenses, and grammatical structures that are appropriate to his level. Grammar is introduced and practiced in innovative and interesting ways with a variety of learning styles in mind. Exposure to the culture of France and other French-speaking countries can be found throughout the course in order to help the student understand French, which is a dynamic language that is used by millions of people throughout the world.

In the French III B course, t he student will continue to sharpen his listening, speaking, reading, and writing skills through a variety of activities. This course is organized into five topics: health, home, measurement, professions, and my history. The student will learn to express himself using an ever-increasing vocabulary, verbs in various tenses, articles, and adjectives. The student will review all verb tenses, including present tense, past tense, future tense, conditional tense, the passive voice, imperative verbs, and more. The student will learn to use two-object pronouns and review grammar from previous French instruction. Grammar is introduced and practiced in innovative and interesting ways with a variety of learning styles in mind. Elements of the French-speaking world and culture appear throughout the course, including people, geographical locations, and histories. The student will also learn about the various countries where French is spoken.

FRENCH IV

In the French IV A course, the student will continue to sharpen his listening, speaking, reading, and writing skills through a variety of activities. Throughout the five topics in the course, the student will learn to express himself using an ever-increasing vocabulary, present-tense verbs, past-tense verbs, future-tense verbs, conditional-tense verbs, subjunctive mood, articles, and adjectives. Grammar is introduced and practiced in innovative and interesting ways with a variety of learning styles in mind. The course is rich in authentic reading material and native-speaker recordings and presentations to enrich culture, grammar, and vocabulary presentations. Elements of the French-speaking world and culture appear throughout the course, including people, geographical locations, and histories.

In the French IV B course, t he student will continue to sharpen his listening, speaking, reading, and writing skills through a variety of activities. Throughout the five topics in this course, the student will learn to express himself using an ever-increasing vocabulary, present-tense verbs, past-tense verbs, future-tense verbs, conditional-tense verbs, subjunctive mood, articles, and adjectives. Grammar is introduced and practiced in innovative and interesting ways with a variety of learning styles in mind. The course is rich in authentic reading material and native-speaker recordings and presentations to enrich culture, grammar, and vocabulary presentations. Elements of the French-speaking world and culture appear throughout the course, including people, geographical locations, and histories.

GAME DESIGN FOR CHROMEBOOKS

Are you ready to take your passion for game design and turn it into a real-life prototype? In the Game Design for Chromebooks course, you'll learn the fundamentals of game design including scripting in JavaScript, game mechanics, audio editing, storytelling, and game world development. And the best part? You'll apply these skills to build an arcade-style galactic adventure game using PlayCanvas! Let's get ready to blast off into the world of game design!

GEOMETRY

In the Geometry course, the student will use virtual manipulatives and tools to explore the principles of logic, proofs, and constructions. The student will use the midpoint and distance formulas to solve a variety of problems involving the coordinate plane. The student will also study parallel and perpendicular lines, including special angle pairs. The student will explore transformations in the coordinate plane and apply them to other geometrical concepts. This course will conclude with the use of triangle concepts to find angle measures, prove triangles congruent, and discover relationships within one and two triangles. Throughout the course, the student will learn concepts through a variety of instructional strategies, solve real-world applications, and complete an assortment of activities.

GERMAN I

In the German I course, the student will learn listening, speaking, reading, and writing skills through a variety of activities. Throughout the five units, or themes, of material (greetings, the date, weather, time, and colors), the student will learn to express himself using an ever-increasing vocabulary, present-tense verbs, articles, and adjectives.

Grammar is introduced and practiced in innovative and interesting ways with a variety of learning styles in mind. Culture is presented throughout the course to help the learner focus on the German-speaking world, people, geographical locations, and histories.

GERMAN II

In the German II course, the student will continue to learn listening, speaking, reading, and writing skills through a variety of activities. Throughout the five units, or themes, of material (daily routine, animals, pastimes, the body, and descriptions), the student will learn to express himself using an ever-increasing vocabulary, past-tense verbs, demonstrative articles, and adjectives. Grammar is introduced and practiced in innovative and interesting ways with a variety of learning styles in mind. Culture is presented throughout the course to help the learner focus on the German-speaking world, people, geographical locations, and histories.

GERMAN III

In the German III A course, the student will continue to learn and practice successful communication through speaking, writing, reading, and listening. Throughout the five units, or themes, of material (Die GefÜhle, Der Verkehr, Bei der Arbeit, Land und Leute, and Die Zukunft), the student will learn to express himself using an ever-increasing vocabulary, present-tense verbs, articles, and adjectives. Grammar is introduced and practiced in innovative and interesting ways with a variety of learning styles in mind. Culture is presented throughout the course to help the learner focus on the German-speaking world, people, geographical locations, and histories.

In the German III B course, the student will continue to learn and practice successful communication through speaking, writing, reading, and listening. This course presents material according to a specific theme, and the student will learn to express himself through a variety of activities using his ever-increasing vocabulary and grammar knowledge. Culture is presented throughout the course to help the learner focus on the German-speaking world, people, geographical locations, and histories.

HIGH SCHOOL COMPUTER SCIENCE

Have you ever wondered how computers work? Have you wanted to know how programs are developed or even to create one yourself? In the High School Computer Science A course, you will begin by looking at the primary responsibilities of hardware and software and how they interact. You will also learn the basics of operating systems and how to implement optimization, abstraction, and algorithms in programming. Using the programming language Python, you will learn how to create a program using primitives, objects, control structures, and data structures. You will learn and apply troubleshooting, debugging, and using appropriate documentation. You will also use data collection and visualization tools to help interpret and understand the underlying data. This course will prepare you for further study in Computer Science.

Have you ever wondered if computers can exchange information with other computers? Have you wanted to know how cybersecurity works? In the High School Computer Science B course, you will begin by looking at how computer networks function and what basic topologies are. In this course, you will also learn the basics of cybersecurity, including common threats, risks, solutions, and protection schemes. You will look at the impacts computing innovations have had on multiple aspects of society. You will learn about and apply common collaboration and communication tools to plan and complete projects. And, you will look at the current state and future of computer innovations, including its intersection with the law, artificial intelligence (AI), machine learning, and other future careers . This course will prepare you for further study in Computer Science.

HIGH SCHOOL HEALTH

The High School Health course provides the student with the opportunities to consider many influences on social, emotional, and physical health and well-being. The course covers information on healthy decisions, communication, goal setting and decision making, family dynamics, food and nutrition, substance abuse prevention, and prevention of STIs and HIV/AIDS. The student will also learn how to be a savvy consumer by being aware of consumer rights, techniques in advertising, and how to use checking and credit accounts responsibly.

HONORS ALGEBRA I

In the Honors Algebra I course, the student will be exposed to higher-level mathematics. The student will begin by reviewing basic real number operations and properties before learning how to translate between verbal descriptions of real-life situations and data presented in tables, graphs, and equations. Next the student will solve multi-step equations and inequalities. The student will write and graph linear equations in various forms. Other topics in the course include sequences and series, absolute value, rate of change, and set notation. By the end of the course, the student will solve linear systems of equations and inequalities. Throughout the course, the student will solve real- world problems and model real-world scenarios. Throughout the course, the student will be

introduced to multiple problem-solving strategies and will be exposed to various technologies that can be utilized when solving algebra problems.

HONORS ALGEBRA II

The Honors Algebra II course will challenge the student to work at an accelerated pace and to take learning beyond what is required in the standard-level course. The beginning units will focus mostly on the equation and the inequality, which the student will write, solve, and graph in a variety of real-world scenarios. The last few units will focus on types of functions. The student will continue their study of quadratic functions from Algebra 1, but will expand this to include exponential and logarithmic functions. As before, the student will write, solve, and graph these functions. Use of a graphing calculator is encouraged.

HONORS AMERICAN GOVERNMENT

In the Honors American Government course, the student will learn, practice, and apply the fundamental skills and strategies that will help them grow into critical explorers of civics and American government. The course focuses on a variety of topic areas, including the Constitution, political precedence and philosophy, the formation of the republic, the structure and function of government, foundational economic thought, civil rights and civil liberties, and civics and political participation. American Government instruction closely aligns with national and state standards. Daily instruction supports student learning of core government and civics content, as well as critical thinking and literacy skills. Instruction is presented in two modes: Peer Model, in which the student views a video of a peer learning how to use and apply the target skill or concept; and 21st Century Skills, in which the student gains proficiency in the skills, knowledge, and expertise needed to succeed in life and work. Text assets and visual media are used frequently throughout the course to allow the student to gain experience in reading and interpreting data from a variety of sources. The student puts an inquiry-based approach into practice by working directly with these assets through the lens of unit and lesson themes as well as specific learning goals. Check-In and Practice activities allow the student to confirm understanding, resolve misconceptions, and apply their learning to new situations. Together the course elements ensure the student gains an awareness of the structure and function of American government, grows as a critical thinker and eventual participant in the political process, and masters the skills to succeed in life and work.

HONORS BIOLOGY

In the Honors Biology course, the student will study the science of life. The student will explore the idea that living things are extremely diverse in form, yet are unified by certain core characteristics that they all share. In learning about these core characteristics, the student will be able to critically evaluate data and information related to biological problems, connect many ideas to the student's own life, and see the world in a new way. Throughout the course, the student will engage in activities to encourage critical thinking, including using multiple examples to generate broader generalizations, exploring an increased complexity of conceptual relationships, and studying content appropriate for college preparation studies.

HONORS CHEMISTRY

In the Honors Chemistry course, the student will explore the fundamental concepts of chemistry, while engaging in hands-on and virtual lab experiments, and interdisciplinary problem-solving activities. The student will build on prior knowledge to learn how to model the structure of an atom, analyze the periodic table of elements, identify simple chemical reactions and investigate particulate electrical forces. The course provides many opportunities for the student to apply these concepts to real-world situations.

HONORS EARTH SCIENCE

In the Honors Earth Science course, the student will learn about natural resources and explore issues surrounding human management of resources. Topics of study include water resources, energy resources, and rock, mineral, and land resources. The student will investigate the impact of resource consumption on humans and the environment. The student will also explore Earth's processes of rock and mineral formation and plate tectonics. In the honors-level course, the student will have opportunities to delve further into some topics and engage with enhanced assessments.

HONORS ENGLISH I

In the Honors English I course, the student will take an in-depth look at a variety of literature selections. In reading these diverse selections, the student will gain a thorough understanding of fiction and nonfiction genres, including short stories, essays, poetry, and drama. The student will also read Stephen Crane's The Red Badge of Courage. This selection enables the student to explore universal themes and make connections between the characters' experiences and his own. Harper Lee's To Kill a Mockingbird may be read instead of The Red Badge of Courage. Writing instruction focuses on analytical and expository writing but also provides opportunities for the student to write creatively. The Honors course includes more rigorous curriculum and provides greater opportunities for students to explore concepts, engage in independent research, and demonstrate critical thinking skills.

HONORS ENGLISH II

In the Honors English II course, the student will study the literature of the Americas, Europe, and Africa. In reading and responding to these selections, the student will gain an understanding of and appreciation for both the unique experiences of people from other cultures and the common themes that run through the human experience regardless of culture. Writing instruction focuses on analysis, exposition, and narrative writing with expanded opportunities for creative and fiction writing. An increased focus on higher-order thinking, literary analysis, and vocabulary studies differentiates this course from its standard-level equivalent.

HONORS ENGLISH III

In the Honors English III course, the student will focus on literary movements from American literature, and trace the chronology of national literature from the early American and colonial period through the periods of realism and regionalism. In reading these diverse selections, the student will gain a thorough understanding of fiction, including short stories, poetry and drama, as well as nonfiction genres, including the oral tradition, seminal historical documents, and speeches. The student will also read Lorraine Hansberry's play A Raisin in the Sun. Jerome Lawrence and Robert E. Lee's play The Night Thoreau Spent in Jail may be read instead of A Raisin in the Sun. In reading these American plays and composing a dramatic scene, the student will understand drama in its historical and literary context. Writing instruction guides the student through the process of composing a descriptive essay and modeling the style of an American author. Throughout the course, the student expands his vocabulary in context. The mastery of both critical vocabulary and grammar skills helps the student become a more thoughtful and effective reader and writer. The Honors course includes more rigorous curriculum and provides greater opportunities for the student to explore concepts, engage in independent research, and demonstrate critical thinking skills.

HONORS ENGLISH IV

In the Honors English IV course, the student will take an in-depth look at a variety of types of English Literature that span from the Anglo-Saxon and Medieval Periods through the Restoration and the Enlightenment. In reading and responding to these selections, the student will gain an understanding of fiction and nonfiction genres including poetry, short stories, essays, and drama through examining their historical and cultural contexts, as well as specific literary elements. The student will also read Shakespeare's Macbeth, exploring elements of drama and common themes of the Renaissance. Writing instruction will focus on expository and creative writing, but also provides opportunities for the student to write personal responses to literature. Grammar instruction will focus on verbs and pronouns, as well as clauses and sentence structure.

HONORS GEOMETRY

In the Honors Geometry course, the student will explore geometry concepts and apply them to real-world problems. The student will begin by defining basic geometric terms, postulates, and theorems before learning how to apply them to parallel and perpendicular lines. Next, the student will learn about the different types of transformations and apply them to geometry. Finally, the student will explore relationships in triangles, quadrilaterals, and other polygons.

Throughout the course, the student will be introduced to many higher mathematical concepts and applications.

HONORS PHYSICAL SCIENCE

In the Honors Physical Science A course, the student will be introduced to a variety of basic concepts in the field of chemistry. The student will also be introduced to the forces and motion, including topics of Newton’s laws and the conservation of momentum.

This course consists of varied curriculum that provides the student the opportunity to use a scientific approach to problem-solving and making real-world connections. The student will investigate how matter is classified, explore the structure of an atom, identify groups within the periodic table, compare and contrast chemical reactions, study the properties of acids and bases and identify how to apply forces and motion to objects.

In the Honors Physical Science B course, the student will study a variety of essential physics concepts including energy of motion, energy and forces, thermal energy, non-contact forces, waves, and electromagnetic radiation. This course includes a variety of instructional strategies and provides the student the opportunity to use a scientific approach to problem-solving and making real-world connections. Honors Physical Science B includes hands-on explorations and virtual simulations to enhance the student's comprehension of key concepts.

HONORS PHYSICS

The Honors Physics A course is designed to describe the physical world using a small number of basic assumptions, concepts, and equations. The course emphasizes relating physics to the everyday world. Physics A focuses on understanding motion. The student will explore the concepts involved with motion in one- and two-dimensions, forces, work and energy, momentum and collisions, circular motion and gravitation. The students will recognize the importance of the laws of thermodynamics. Approximately 40 percent of the course involves virtual laboratory investigations. Some activities will require ordinary household items such as rulers, meter sticks, balls or marbles, string, paper, and pencils.

Throughout the course, the student will engage in activities to encourage critical thinking, including using multiple examples to generate broader generalizations, exploring an increased complexity of conceptual relationships, and studying content appropriate for college preparation studies.

The Honors Physics B course is designed to describe the physical world using a small number of basic assumptions, concepts, and equations. The course emphasizes relating physics to the everyday world. Physics B focuses on the characteristics of waves and describes the behavior of waves with emphasis on light and sound. The student will understand the relationship between electricity and magnetism. Finally, the student will gain a simple understanding of atomic physics. Approximately 40 percent of the course involves virtual laboratory investigations. Some activities will require ordinary household items such as rulers, meter sticks, balls or

marbles, string, paper, and pencils. Throughout the course, the student will engage in activities to encourage critical thinking, including using multiple examples to generate broader generalizations, exploring an increased complexity of conceptual relationships, and studying content appropriate for college preparation studies.

HONORS UNITED STATES HISTORY

The Honors United States History A course examines social, economic, historical, and political change in the United States from the Civil War and Reconstruction to recent events. Through interactive activities, discussions, charts, timelines, primary sources, and maps, students will explore key events, patterns, and figures that shaped American history and culture. Students will evaluate important foundational documents such as the Declaration of Independence and the Constitution.

The Honors United States History B course will also investigate the changing relationship of the United States to the rest of the world. In-depth study of the cause and effect of important events will help students better understand the historical context of key developments. Students will receive instruction in analyzing essential historical documents through portfolio items and lesson activities. Readings and activities will assist students in comparing time periods and in developing historical reasoning and critical thinking skills. Through this course, students will gain a broader understanding of the relevance of American history to their lives as well as develop a better understanding of the impact of key events on American culture and society.

HONORS WORLD HISTORY

In the Honors World History A course, the student will learn, practice, and apply the fundamental skills and strategies that will help them grow into critical explorers of historical context. The course focuses on several overarching themes, including human-environment interaction, development and interactions of societies, conflict, the expansion of belief systems, and ideas that would transform societies. Each unit's theme is reflected in a unit-level essential question. These include questions such as "Why do we study the past?," "How does geography impact the development of complex civilizations?," "How has religion transformed societies?," "What factors contribute to the rise and fall of civilizations?," "How are cultural achievements defined?," "What is the enduring impact of the European Renaissance on modern societies?," and "How has global interdependence shaped the world?" Essential questions throughout the instruction reinforce the unit-level essential question and connect to the specific learning goals of the lesson. World History instruction closely aligns with state and national standards. Daily instruction supports student learning of core historical content as well as critical thinking and literacy skills. Instruction is presented in two modes: Peer Model, in which the student views a video of a peer learning how to use and apply the target skill or concept; and 21st Century Skills, in which the student gains proficiency in the skills, knowledge, and expertise needed to succeed in life and work. Text assets are used frequently throughout the course to provide the student with experience in reading and interpreting primary and secondary source documents. Excerpts may include scholarly papers as well as magazine and newspaper articles. The student puts an inquiry-based approach into practice by working directly with these assets through the lens of unit and lesson themes as well as specific learning goals. Check-In and Practice activities allow the student to confirm understanding, resolve misconceptions, and apply their learning to new situations. Together the course elements ensure the student grows as a critical thinker and interpreter of the multiple stories of history and masters the skills to succeed in life and work.

In the Honors World History B course, the student will learn, practice, and apply the fundamental skills and strategies that will help them grow into critical explorers of historical context. The course focuses on several overarching themes, including human-environment interaction, development and interactions of societies, conflict, the expansion of belief systems, and ideas that would transform societies. Each unit's theme is reflected in a unit-level essential question. These include questions such as "What are the enduring long-term effects of colonization on the colonized?," "How do changing belief systems influence political, social, and economic structures?," "Are revolutions inevitable?," "How has technology changed the world?," "How does war transform societies?," and "How has global interdependence shaped the world?" Essential questions throughout the instruction reinforce the unit-level essential question and connect to the specific learning goals of the lesson. World History instruction closely aligns with state and national standards. Daily instruction supports student learning of core historical content as well as critical thinking and literacy skills. Instruction is presented in two modes: Peer Model, in which the student views a video of a peer learning how to use

and apply the target skill or concept; and 21st Century Skills, in which the student gains proficiency in the skills, knowledge, and expertise needed to succeed in life and work. Text assets are used frequently throughout the course to provide the student with experience in reading and interpreting primary and secondary source documents. Excerpts may include scholarly papers as well as magazine and newspaper articles. The student puts an inquiry-based approach into practice by working directly with these assets through the lens of unit and lesson themes as well as specific learning goals. Check-In and Practice activities allow the student to confirm understanding, resolve misconceptions, and apply their learning to new situations. Together the course elements ensure the student grows as a critical thinker and interpreter of the multiple stories of history and masters the skills to succeed in life and work

INTERNSHIP & WORK STUDY

There is a lot students can learn from their first experience in the workplace. Students taking the Internship & Work Study A course should currently be working in an internship or work site, or actively pursuing a placement. Students will learn how to apply the lessons learned to future career searches and opportunities. Topics include searching for and applying for jobs, creating resumes and cover letters, and going on interviews. The student will also learn about employee rights and build life-skills such as budgeting.

Now that the student has successfully completed Internship and Work Study A, the student will prepare to use the skills learned to become even more effective in the workplace. As the Internship & Work Study B progresses, the student's field supervisor will evaluate the student's performance and growth on the job. The student will also be asked to provide several self-evaluations in addition to writing several reflection assignments. The course also has a job readiness learning component that involves studying content on workforce readiness skills, career decision making skills, and job-seeking skills.

INTRODUCTION TO DRAWING

Learning to draw is like learning any new skill: it takes practice, practice, practice. Introduction to Drawing is a one- semester course for beginning and intermediate artists that provides training in the application of artistic processes and skills. In the Introduction to Drawing course, you will learn the basics of line, contour, shading, texture, perspective, composition, and action drawing. You will examine artwork and demonstrate your newly learned skills by creating several original works of art and compiling a portfolio of your artwork.

INTRODUCTION TO GRAPHIC DESIGN

Can people communicate without using words? Do different colors invoke different emotions? Can artists use various textures to communicate a range of ideas? Absolutely! Designed to develop an understanding and appreciation for design, the Introduction to Graphic Design A course teaches the student to interpret visual representations and to communicate his or her own ideas and information graphically. By raising the student's awareness of design, this intermediate-level course establishes a strong foundation in the basic principles of graphic design. This course, the first in a two-semester series, introduces the student to scenarios that can be solved by applying creative techniques that yield innovative and effective design solutions. Though the course is structured around computer-assisted graphic design, the student will examine other types of design as well. The student will also learn to use Inkscape, an image-editing program that is provided, and will create several design compositions using this program.

JAPANESE I

The Japanese I course is a beginning-level course that will introduce the student to a variety of areas of the Japanese language. In this course, the student will learn listening, speaking, reading, and writing skills through a variety of activities.

This course is organized into five topics: greetings, the date, time, colors, and places. The student will learn to express himself using an ever-increasing vocabulary, present-form verbs, particles, and adjectives. Grammar is introduced and practiced in innovative and interesting ways with a variety of learning styles in mind. The student will also learn about the Japanese people, their culture, society, and history.

JAPANESE II

In the Japanese II course, the student will learn listening, speaking, reading, and writing skills through a variety of activities. This course is organized into five topics: daily life, animals, activities, the body, and descriptions. The student will learn to express himself using an ever- increasing vocabulary, present-tense verbs, and adjectives. Grammar is introduced and practiced in innovative and interesting ways with a variety of learning styles in mind. Throughout the course, the student will explore the Japanese people, their culture, lifestyle, geographical locations, and histories.

JOURNALISM

In the Journalism A course, the student will have the opportunity to experience what it is like to work on an online news publication. In addition, he will learn about issues in journalism from early print editions to today's multi-media formats. In addition, lessons in “Introduction to Journalism” in the first semester and “Issues in Journalism” in the second semester will satisfy the objectives of a traditional high school journalism class.

In the Journalism B course, the student will have the opportunity to experience what it is like to work on an online news publication. In addition, he will learn about issues in journalism from early print editions to today's multi-media formats. In addition, lessons in “Introduction to Journalism” in the first semester and “Issues in Journalism” in the second semester will satisfy the objectives of a traditional high school journalism class.

LEARNING IN A DIGITAL WORLD

The digital world seems to change every day, and touch more of our lives. We use technology to communicate with friends and family, find neverending entertainment options, follow our favorite sports teams and fashion trends, and do our school work. In the Learning in a Digital World course, you will get the tools to navigate this exciting and always changing world. Learn about real-world issues and how to solve real-world problems through interactive and hands-on assignments. Discover what it means to be a responsible digital citizen, expand your digital literacy, and become a successful online student. Consider the best ways to find, create, and share information, learn to maximize information and communication technologies, and explore digital content creation, from emails and blogs to social media, videos, and podcasts.

LIFE SKILLS: NAVIGATING ADULTHOOD

What do you want out of life? How do you achieve your dreams for the future? These can be difficult questions to answer, but they don’t have to be with the right tools. In the Life Skills: Navigating Adulthood course, learn more about yourself and prepare for the future through goal setting, decision making, surviving college and career, and how to become a valuable contributing member of society. It’s your life; make it count!

LIVING MUSIC I

Designed for students in grades 9–12, the Living Music I course teaches fundamental musicianship skills from a Western-Classical

approach, while aligning to National Core Arts Standards. The course challenges the student to improve listening, notation, analysis, performance, and improvisation skills. With audio, visual, and interactive technologies, the course provides a unique and advanced learning experience for the student.

LIVING MUSIC II

Designed for students in grades 9–12, the Living Music II course enhances the student's fundamental musicianship skills from a Western-Classical approach, while aligning to National Core Arts Standards. The student will review and deepen skills and concepts of rhythm and notation learned and practiced in Living Music I. Through the use of virtual tools and analysis of classic repertoire, the student will work to improve listening, notation, analysis, performance, and composition skills. With audio, visual, and interactive technologies, the course provides a unique and advanced learning experience for the student. Living Music I is a prerequisite for this course.

MARINE SCIENCE

From tiny puddles to vast oceans, water allows for processes that impact all things around us from wildlife and the air we breathe to our health and more! In the Marine Science A course, you will examine the essential nature of water and how its special properties support all life on Earth. Through the lens of the Scientific Method, you will engage with scientific inquiry to study aquatic ecosystems and how water, land, and weather all work together to create unique living environments. You will also learn about scientists who were critical to aquatic science and how to form valid and reliable conclusions from your study of water like they did. Let's dive in and see what makes water vital to life.

Water is the flowing lifeline of the Earth, and it impacts the life of every living creature. But have you ever stopped to think about human' impact on water? In the Marine Science B course, you will discover more about the role we play in both threatening and protecting water sources. You will explore climate change and other events that concern Earth's water sources and expand your knowledge of marine science careers. You will also plan and execute a cumulative research project exploring an aquatic environment near you using the Scientific Method. Let's dive in and continue your exploration of the World's water!

PERSONAL FINANCE

Personal Finance prepares students for making sound financial decisions through real-world applications. Topics include financial and career planning, banking, credit, and debt. Students will also learn about savings and investments programs and will begin to evaluate stocks, bonds, mutual funds, and real estate. Personal Finance provides students with the basics to protecting finances, exploring concepts such as tax strategies, insurance, retirement, and estate planning. Finally, students receive an overview of financial option for continuing education.

PHYSICAL EDUCATION

In this course, the student will use previously acquired skills in a wide range of elective activities. The course places priority on self-motivated physical activities that the student can participate in now and later in life, and incorporates skill competencies, written assignments, and class evaluations into some of the units. The student will be expected to show proficiency in the activities that are important for his personal development at the appropriate age. The student's physical fitness level will be assessed and recorded. As an online learner, the student will utilize relevant Web sites and streaming videos provided in the lessons.

PHYSICAL SCIENCE

In Physical Science A, the student will be introduced to a variety of basic concepts in the field of chemistry. The student will also be introduced to the forces and motion, including topics of Newton's laws and the conservation of momentum. This course consists of varied curriculum that provides the student the opportunity to use a scientific approach to problem-solving and making real-world connections. The student will investigate how matter is classified, explore the structure of an atom, identify groups within the periodic table, compare and contrast chemical reactions, study the properties of acids and bases and identify how to apply forces and motion to objects.

In Physical Science B, the student will study a variety of essential physics concepts including energy of motion, energy and forces, thermal energy, non-contact forces, waves, and electromagnetic radiation. This course includes a variety of instructional strategies and provides the student the opportunity to use a scientific approach to problem-solving and making real-world connections. Physical Science B includes hands-on explorations and virtual simulations to enhance the student's comprehension of key concepts

PHYSICS

The Physics A course is designed to describe the physical world using a small number of basic assumptions, concepts, and equations. The course emphasizes relating physics to the everyday world. Physics A focuses on understanding motion. The student will explore the concepts involved with motion in one- and two-dimensions, forces, work and energy, momentum and collisions, circular motion and gravitation. The students will recognize the importance of the laws of thermodynamics. Approximately 40 percent of the course involves virtual laboratory investigations. Some activities will require ordinary household items such as rulers, meter sticks, balls or marbles, string, paper, and pencils.

The Physics B course is designed to describe the physical world using a small number of basic assumptions, concepts, and equations. The course emphasizes relating physics to the everyday world. Physics B focuses on the characteristics of waves and describes the behavior of waves with emphasis on light and sound. The student will understand the relationship between electricity and magnetism. Finally, the student will gain a simple understanding of atomic physics. Approximately 40 percent of the course involves virtual laboratory investigations. Some activities will require ordinary household items such as rulers, meter sticks, balls or marbles, string, paper, and pencils.

PRECALCULUS

In the Precalculus course, the student will continue to study higher-level mathematics. The student will begin by reviewing the fundamental concepts in algebra that serve as building blocks for an in-depth study of functions and graphs. Next, the student will explore and analyze polynomial, rational, radical, exponential, logarithmic, and piecewise functions. The student will further delve into quadratics with a unit on the conic sections. Finally, the student will explore sequences and series. A content thread throughout the course focuses on ways mathematics is applied in the real world and is essential to everyday life. These real-world connections, combined with an emphasis on mathematical reasoning and critical thinking skills, prepare the student for future college and career opportunities.

SIGN LANGUAGE I

In the Sign Language I course, the student will be introduced to the fundamental concepts of American Sign Language. The student will explore vocabulary, grammar, and conversational skills using basic signing and fingerspelling techniques, and will begin to learn about Deaf culture and the Deaf community. A webcam and recording device are required for this course.

SIGN LANGUAGE II

In the Sign Language II course, the student will expand his ASL vocabulary, grammar, and conversational skills. In addition, the student will complete activities and exercises that help him understand the culture of deaf and hard-of-hearing community. A webcam and recording device are required for this course.

SPANISH I

In the Spanish I course, students cover basic vocabulary, grammar, spelling, and punctuation to build a solid foundation for further study. Assignments include engaging in simple conversation, writing paragraphs, and listening to Spanish dialogue. Students also study the history and culture of Spanish-speaking peoples.

SPANISH II

In the Spanish II course, students engage in more advanced conversations, write paragraphs and stories, translate to and from Spanish, and improve their vocabulary and grammar. Intense listening comprehension exercises aid in understanding more complex thoughts and subjects.

SPANISH III

In the Spanish III course, the student will continue to sharpen his listening, speaking, reading, and writing skills through a variety of activities. This course is organized into five topics: feelings, transportation, work, countries, and the future. The student will learn to express himself using an ever-increasing vocabulary, present-tense verbs, past-tense verbs, articles, and adjectives. Elements of the Spanish-speaking world and culture appear throughout the course, including people, geographical locations, and histories.

SPANISH IV

In the Spanish IV A course, the student will continue to sharpen his listening, speaking, reading, and writing skills through a variety of activities. Throughout the five topics covered in this course, the student will learn to express himself using an ever-increasing vocabulary, present-tense verbs, past-tense verbs, articles, and adjectives. Grammar is introduced and practiced in innovative and interesting ways with a variety of learning styles in mind. Elements of the Spanish-speaking world and culture appear throughout the course, including people, geographical locations, and histories. It is recommended to use Mozilla® Firefox® or Internet Explorer® when viewing this course.

In the Spanish IV B course, the student will continue to sharpen his listening, speaking, reading, and writing skills through a variety of activities. Throughout the five topics covered in this course, the student will learn to express himself using an ever-increasing vocabulary, present-tense verbs, past-tense verbs, future-tense verbs, conditional-tense verbs, the subjunctive, the present perfect tense, the past perfect tense, articles, and adjectives. Grammar is introduced and practiced in innovative and interesting ways with a variety of learning styles in mind. Elements of the Spanish-speaking world and culture appear throughout the course, including people, geographical locations, and histories.

STATISTICS

In the Statistics course, the student will be introduced to the major concepts of collecting, organizing, and drawing conclusions from data. The student will also have the opportunity to observe patterns and departures from patterns, plan a study, produce models using probability and simulation, and use statistical inference to confirm models

UNITED STATES HISTORY

In the United States History course, the student is introduced to website design and development by learning the basic website design principles. Topics include networking, audience analysis, internet security, project management, and website navigation. Students will apply the principles to design and evaluate their own websites and the sites of others. Students will learn development languages such HTML and CSS. Throughout the course, students will complete practice activities, homework assignments and projects that allow them to apply the skills they have learned.

WEB DESIGN I

In the Web Design course, the student is introduced to website design and development by learning the basic website design principles. Topics include networking, audience analysis, internet security, project management, and website navigation. Students will apply the principles to design and evaluate their own websites and the sites of others. Students will learn development languages such HTML and CSS. Throughout the course, students will complete practice activities, homework assignments and projects that allow them to apply the skills they have learned.

WORLD GEOGRAPHY

The World Geography course develops students' comprehension of the geographical concepts and skills needed to acquire information and systematically apply decision-making processes to real-life situations. Students will acquire an understanding of multiculturalism and the relationships between people and their environment. Geography explores the world's cultural regions by examining location, physical characteristics, demographics, historical changes, economic activity, and land use.

WORLD HISTORY

In the World History A course, the student will learn, practice, and apply the fundamental skills and strategies that will help them grow into critical explorers of historical context. The course focuses on several overarching themes, including human-environment interaction, development and interactions of societies, conflict, the expansion of belief systems, and ideas that would transform societies. Each unit's theme is reflected in a unit-level essential question. These include questions such as "Why do we study the past?," "How are cultural achievements defined?," "How has global interdependence shaped the world?," "What are the enduring long-term effects of colonization on the colonized?," "How do changing belief systems influence political, social, and economic structures?," "Are revolutions inevitable? Why or why not?," and "How has technology changed the world?" Essential questions throughout the instruction reinforce the unit-level essential question and connect to the specific learning goals of the lesson. World History instruction closely aligns with state and national standards. Daily instruction supports student learning of core historical content as well as critical thinking and literacy skills. Instruction is presented in two modes: Peer Model, in which the student views a video of a peer learning how to use and apply the target skill or concept; and 21st Century Skills, in which the student gains proficiency in the skills, knowledge, and expertise needed to succeed in life and work. Text assets are used frequently throughout the course to provide the student with experience in reading and interpreting primary and secondary source documents. Excerpts may include scholarly papers as well as magazine and newspaper articles. The student puts an inquiry-based approach into practice by working directly with these assets through the lens of unit and lesson themes as well as specific learning goals. Check-In and Practice activities allow the student to confirm understanding, resolve misconceptions, and apply their learning to new situations. Together the course elements ensure the student grows as a critical thinker and interpreter of the multiple stories of history and masters the skills to succeed in life and work.

In the World History B course, the student will learn, practice, and apply the fundamental skills and strategies that will help them grow into critical explorers of historical context. The course focuses on several overarching themes, including human-environment interaction, development and interactions of societies, conflict, the expansion of belief systems, and ideas that would transform societies. Each unit's theme is reflected in a unit-level essential question. These include questions such as "How does war transform societies?" and "How has global interdependence shaped the world?" Essential questions throughout the instruction reinforce the unit-level essential question and connect to the specific learning goals of the lesson. World History instruction is presented in close

alignment with state and national standards. Daily instruction supports student learning of core historical content as well as critical thinking and literacy skills. Instruction is presented in two modes: Peer Model, in which the student views a video of a peer learning how to use and apply the target skill or concept; and 21st Century Skills, in which the student gains proficiency in the skills, knowledge, and expertise needed to succeed in life and work. Text assets are used frequently throughout the course to provide the student with experience in reading and interpreting primary and secondary source documents. Excerpts may include scholarly papers as well as magazine and newspaper articles. The student puts an inquiry-based approach into practice by working directly with these assets through the lens of unit and lesson themes as well as specific learning goals. Check-In and Practice activities allow the student to confirm understanding, resolve misconceptions, and apply their learning to new situations. Together the course elements ensure the student grows as a critical thinker and interpreter of the multiple stories of history and masters the skills to succeed in life and work.