

**Missouri Course Access and Virtual School Program (MOCAP)**  
**Course Descriptions-Launch**

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## **KINDERGARTEN ART**

Kindergarten students will explore and apply learning, processes, and techniques to two and three dimensional visual arts projects. Students will learn about, select, and use elements of art (such as line thickness, color, texture, and multimedia) to communicate ideas through artwork. They will communicate ideas about relevant visual arts topics, themes, and personally-created pieces for a specific purpose.

## **KINDERGARTEN ENGLISH LANGUAGE ARTS**

Kindergarten students will develop and apply skills to the reading process including comprehension, vocabulary, and making connections to text, self and world. Students will read independently as appropriate for individual level. Students will develop and apply skills and strategies to comprehend, analyze, and evaluate nonfiction, fiction, poetry, and drama from a variety of cultures and times. Students will also comprehend and analyze words, images, graphics, and sounds in various media and digital forms to impact meaning. Understand how English is written and read as a start to reading foundations (K-2) using phonics, Phonemic Awareness, and increasing fluency. Students will also apply a writing process to develop a text for audience and purpose and compose well-developed writing texts for audience and purpose. Students will gather, analyze, evaluate, and use information from a variety of sources, communicate using conventions of English language including grammar, punctuation, capitalization, and spelling, as well as listen and speak for a variety of purposes and audiences.

## **KINDERGARTEN HEALTH**

Kindergarten students will identify structures and functions of the human body, such as the sensory and muscular systems. Students will identify important human relationships and the cause and effect of one's actions and ways to build and maintain relationships. They will identify and evaluate appropriate social interaction with peers, including verbal and non verbal cues, and how to express oneself appropriately. Students will complete games, lessons, and activities to improve their understanding of physical activity and lifetime wellness, such as physical movement and identifying food choices that promote a healthy body.

## **KINDERGARTEN MATH**

Kindergarten students will know the number names and the count sequence. Students will understand the relationship between numbers and quantities, one to one correspondence, how to compare numbers, place value, and how to solve problems using addition and subtraction at appropriate levels. Additionally, students will identify mathematical patterns, reason with shapes and their attributes, work with time and money, measure lengths in non-standard units, and measure lengths in standard units.

## **KINDERGARTEN MUSIC**

Kindergarten students will explore and improvise rhythmic, melodic patterns and make connections to relevant music content. They will demonstrate and state personal interest in musical selections and analyze a variety of music across cultures and genres to compare and contrast how specific music concepts are used for various purposes.

## **KINDERGARTEN PHYSICAL EDUCATION**

Kindergarten students will identify structures and functions of the human body, such as the sensory and muscular systems. Students will identify important human relationships and the cause and effect of one's actions and ways to build and maintain relationships. They will identify and evaluate appropriate social interaction with peers, including verbal and non verbal cues, and how to express oneself appropriately. Students will complete games, lessons, and activities to improve their understanding of physical activity and lifetime wellness, such as physical movement and identifying food choices that promote a healthy body.

## **KINDERGARTEN SCIENCE**

Kindergarten students will conduct investigations into matter and its interactions with other objects and environmental situations, make observations, and conduct investigations about forces such as pushing and pulling. Students will make observations to identify the sources of energy, as well as observe the structure and function of living organisms and non living objects. Students will observe and investigate the Earth and its relationship with humans, weather, climate, and the Solar System. Finally, students will ask questions, make observations, and gather information about a situation people want to change in order to define a simple problem that can be solved through the development of a new or improved object or tool.

## **KINDERGARTEN SOCIAL STUDIES**

Kindergarten students will identify and explain reasons why we have rules, laws and documents (such as the Constitution and Bill of Rights), and other rights and roles as citizens. They will identify symbols of the United States and the State of Missouri. Students will develop historical perspective and thinking and become more aware of the passage of time. Students will use or construct maps and globes for relevant social studies topics. Students will conduct research and use a variety of resources to support their thinking about relevant social studies topics.

## **1<sup>ST</sup> GRADE ART**

1st grade students will explore and apply learning, processes, and techniques to two and three dimensional visual arts projects. Students will learn about, select, and use elements of art (such as line thickness, color, texture, and multimedia) to communicate ideas through artwork. They will communicate ideas about relevant visual arts topics, themes, and personally-created pieces for a specific purpose. Students will explore, identify, and make connections with art from Missouri, the United States, and around the world (such as Asia, Egypt, Africa and Europe) in order to compare and contrast artworks from different historical time periods and cultures.

## **1<sup>ST</sup> GRADE ENGLISH LANGUAGE ARTS**

1st grade students will develop and apply skills to the reading process including comprehension, vocabulary, and making connections to text, self and world. Students will read independently as



appropriate for individual level. Students will develop and apply skills and strategies to comprehend, analyze, and evaluate nonfiction, fiction, poetry, and drama from a variety of cultures and times. Students will also comprehend and analyze words, images, graphics, and sounds in various media and digital forms to impact meaning. Understand how English is written and read as a start to reading foundations (K-2) using phonics, Phonemic Awareness, and increasing fluency. Students will also apply a writing process to develop a text for audience and purpose and compose well-developed writing texts for audience and purpose. Students will gather, analyze, evaluate, and use information from a variety of sources, communicate using conventions of English language including grammar, punctuation, capitalization, and spelling, as well as listen and speak for a variety of purposes and audiences.

## **1<sup>ST</sup> GRADE HEALTH**

1st grade students will identify structures and functions of the human body, such as the sensory and muscular systems. Students will identify important human relationships and the cause and effect of one's actions and ways to build and maintain relationships. They will identify and evaluate appropriate social interaction with peers, including verbal and non verbal cues, and how to express oneself appropriately. Students will complete games, lessons, and activities to improve their understanding of physical activity and lifetime wellness, such as physical movement and identifying food choices that promote a healthy body.

## **1<sup>ST</sup> GRADE MATH**

1st grade students will understand and use numbers up to 120, understand place value and use place value to add and subtract, understand and solve problems using addition and subtraction at appropriate levels, and understand and apply properties of operations and the relationship between addition and subtraction. Additionally, students will identify mathematical patterns, reason with shapes and their attributes, work with time and money, measure lengths in non-standard units, measure and estimate lengths in standard units, and represent and interpret data.

## **1<sup>ST</sup> GRADE MUSIC**

1st students will explore and improvise rhythmic, melodic patterns and make connections to relevant music content. They will demonstrate and state personal interest in musical selections and analyze a variety of music across cultures and genres to compare and contrast how specific music concepts are used for various purposes.

## **1<sup>ST</sup> GRADE PHYSICAL EDUCATION**

1st grade students will identify structures and functions of the human body, such as the sensory and muscular systems. Students will identify important human relationships and the cause and effect of one's actions and ways to build and maintain relationships. They will identify and evaluate appropriate social interaction with peers, including verbal and non verbal cues, and how to express oneself appropriately. Students will complete games, lessons, and activities to improve their understanding of physical activity and lifetime wellness, such as physical movement and identifying food choices that promote a healthy body.

## **1<sup>ST</sup> GRADE SCIENCE**

1st grade students will conduct investigations into matter and its interactions with other objects and environmental situations, make observations, and conduct investigations about forces such as pushing and pulling. Students will make observations to identify the sources of energy and observe the structure and function of plants and animals. Students will observe and investigate the Earth and its relationship with humans, weather, climate, and the Solar System. Finally, students will explore engineering concepts by asking questions, making observations, and gathering information about a situation people want to change to define a simple problem that can be solved through the development of a new or improved object or tool.

## **1<sup>ST</sup> GRADE SOCIAL STUDIES**

1st grade students will identify and explain reasons why we have rules, laws and documents (such as the Constitution and Bill of Rights), and other rights and roles as citizens. They will identify symbols of the United States and the State of Missouri. Students will develop historical perspective and thinking and become more aware of the passage of time. Students will use or construct maps and globes for relevant social studies topics. Students will conduct research and use a variety of resources to support their thinking about relevant social studies topics.

## **2<sup>ND</sup> GRADE ART**

2nd grade students will explore and apply learning, processes, and techniques to two and three dimensional visual arts projects. Students will learn about, select, and use elements of art (such as line thickness, color, texture, and multimedia) to communicate ideas through artwork. They will communicate ideas about relevant visual arts topics, themes, and personally-created pieces for a specific purpose. Students will explore, identify, and make connections with art from Missouri, the United States, and around the world (such as Asia, Egypt, Africa and Europe) in order to compare and contrast artworks from different historical time periods and cultures.

## **2<sup>ND</sup> GRADE ENGLISH LANGUAGE ARTS**

2nd grade students will develop and apply skills to the reading process including comprehension, vocabulary, and making connections to text, self and world. Students will read independently as appropriate for individual level. Students will develop and apply skills and strategies to comprehend, analyze, and evaluate nonfiction, fiction, poetry, and drama from a variety of cultures and times. Students will also comprehend and analyze words, images, graphics, and sounds in various media and digital forms to impact meaning. Understand how English is written and read as a start to reading foundations (K-2) using phonics, Phonemic Awareness, and increasing fluency. Students will also apply a writing process to develop a text for

audience and purpose and compose well-developed writing texts for audience and purpose. Students will gather, analyze, evaluate, and use information from a variety of

sources, communicate using conventions of English language including grammar, punctuation, capitalization, and spelling, as well as listen and speak for a variety of purposes and audiences.

## **2<sup>ND</sup> GRADE HEALTH**

2nd grade students will identify structures and functions of the human body, such as the sensory and muscular systems. Students will identify important human relationships and the cause and effect of one's actions and ways to build and maintain relationships. They will identify and evaluate appropriate social interaction with peers, including verbal and non verbal cues, and how to express oneself appropriately. Students will complete games, lessons, and activities to improve their understanding of physical activity and lifetime wellness, such as physical movement and identifying food choices that promote a healthy body.

## **2<sup>ND</sup> GRADE MATH**

2nd grade students will understand place value and use place value to add and subtract. They will represent and solve problems involving addition and subtraction, as well as understand and solve problems using addition and subtraction at appropriate levels. Students will understand and apply properties of operations and the relationship between addition and subtraction, identify mathematical patterns, reason with shapes and their attributes, work with time and money, measure lengths in non-standard units, measure and estimate lengths in standard units, and represent and interpret data.

## **2<sup>ND</sup> GRADE MUSIC**

2nd grade students will explore and improvise rhythmic, melodic patterns and make connections to relevant music content. They will demonstrate and state personal interest in musical selections and analyze a variety of music across cultures and genres to compare and contrast how specific music concepts are used for various purposes.

## **2<sup>ND</sup> GRADE PHYSICAL EDUCATION**

2nd grade students will identify structures and functions of the human body, such as the sensory and muscular systems. Students will identify important human relationships and the cause and effect of one's actions and ways to build and maintain relationships. They will identify and evaluate appropriate social interaction with peers, including verbal and non verbal cues, and how to express oneself appropriately. Students will complete games, lessons, and activities to improve their understanding of physical activity and lifetime wellness, such as physical movement and identifying food choices that promote a healthy body.

## **2<sup>ND</sup> GRADE SCIENCE**

2nd grade students will conduct investigations into matter and its interactions with other objects and

environmental situations, make observations, and conduct investigations about forces such as pushing and pulling. Students will make observations to identify the sources of energy, as well as identify methods of energy conservation and transfer. Students will observe the structure and function of plants and animals including parts that help the organism grow, survive, etc. Students will observe and investigate the Earth and its relationship with humans, weather, climate, and the Solar System. Finally, students will explore engineering concepts by asking questions, making observations, and gathering information about a situation people want to change in order to define a simple problem that can be solved through the development of a new or improved object or tool.

## **2<sup>ND</sup> GRADE SOCIAL STUDIES**

2nd grade students will identify and explain reasons why we have rules, laws and documents (such as the Constitution and Bill of Rights), and other rights and roles as citizens. They will identify symbols of the United States and the State of Missouri. Students will develop historical perspective and thinking and become more aware of the passage of time. Students will use or construct maps and globes for relevant social studies topics. Students will conduct research and use a variety of resources to support their thinking about relevant social studies topics.

## **3<sup>RD</sup> GRADE ART**

3rd grade students will explore and apply learning, processes, and techniques to two and three dimensional visual arts projects. Students will learn about, select, and use elements of art (such as line thickness, color, texture, and multimedia) to communicate ideas through artwork. They will communicate ideas about relevant visual arts topics, themes, and personally-created pieces for a specific purpose. Students will explore, identify, and make connections with art from Missouri, the United States, and around the world (such as Asia, Egypt, Africa and Europe) in order to compare and contrast artworks from different historical time periods and cultures.

## **3<sup>RD</sup> GRADE ENGLISH LANGUAGE ARTS**

3rd grade students will develop and apply skills to the reading process including comprehension, vocabulary, and making connections to text, self and world. Students will read independently as appropriate for individual level. Students will develop and apply skills and strategies to comprehend, analyze, and evaluate nonfiction, fiction, poetry, and drama from a variety of cultures and times. Students will also comprehend and analyze words, images, graphics, and sounds in various media and digital forms to impact meaning. Understand how English is written and read using phonics, Phonemic Awareness, and increasing fluency. Students will also apply a writing process to develop a text for audience and purpose and compose well-developed writing texts for audience and purpose. Students will gather, analyze, evaluate, and use information from a variety of sources, communicate using conventions of English language including grammar, punctuation, capitalization, and spelling, as well as listen and speak for a variety of purposes and audiences.

## **3<sup>RD</sup> GRADE HEALTH**

3rd grade students will identify structures and functions of the human body, such as the sensory and

muscular systems. Students will identify important human relationships and the cause and effect of one's actions and ways to build and maintain relationships. They will identify and evaluate appropriate social interaction with peers, including verbal and non verbal cues, and how to express oneself appropriately. Students will complete games, lessons, and activities to improve their understanding of physical activity and lifetime wellness, such as physical movement and identifying food choices that promote a healthy body.

### **3<sup>RD</sup> GRADE MATH**

3rd grade students will represent and solve problems involving multiplication and division, as well as understand and apply properties of operations and the relationship between multiplication and division.

They will understand place value and properties of operations to perform multi-digit arithmetic, understand and use fractions, identify mathematical patterns, reason with shapes and their attributes, and represent and analyze data. Additionally, students will solve problems involving the measurement of time, liquid volumes, and weights of objects, and they will understand and use concepts of area and perimeter.

### **3<sup>RD</sup> GRADE MUSIC**

3rd grade students will explore and improvise rhythmic, melodic patterns and make connections to relevant music content. They will demonstrate and state personal interest in musical selections and analyze a variety of music across cultures and genres to compare and contrast how specific music concepts are used for various purposes.

### **3<sup>RD</sup> GRADE PHYSICAL EDUCATION**

3rd grade students will identify structures and functions of the human body, such as the sensory and muscular systems. Students will identify important human relationships and the cause and effect of one's actions and ways to build and maintain relationships. They will identify and evaluate appropriate social interaction with peers, including verbal and non verbal cues, and how to express oneself appropriately. Students will complete games, lessons, and activities to improve their understanding of physical activity and lifetime wellness, such as physical movement and identifying food choices that promote a healthy body.

### **3<sup>RD</sup> GRADE SCIENCE**

3rd grade students will conduct investigations into matter and its interactions with other objects and environmental situations, as well as make observations and conduct investigations about forces such as pushing and pulling. They will plan and conduct investigations to determine cause and effect of specific relationships, such as magnetic force. Students will make observations to identify the sources of energy, as well as identify methods of energy conservation and transfer. Students will observe the structure and function of plants and animals including parts that help the organism grow, survive, etc. Students will observe and investigate the Earth and its relationship with humans, weather, climate, and the Solar System. Finally, students will explore engineering concepts by asking questions, making observations, and gathering information about a situation people want to change in order to define a simple problem

that can be solved through the development of a new or improved object or tool.

### **3<sup>RD</sup> GRADE SOCIAL STUDIES**

3rd grade students will identify and explain reasons why we have rules, laws and documents (such as the Constitution and Bill of Rights), and other rights and roles as citizens. They will identify symbols of the United States and the State of Missouri, and they will understand the principles and processes of governments and other systems through certain periods in history. Students will develop historical perspective and thinking and become more aware of the passage of time, and they will understand and analyze the peaceful resolution of disputes through certain periods of history. They will identify the contributions of certain Missourians and Americans, as well as changes through history. Students will use or construct maps and globes for relevant social studies topics. Students will conduct research and use a variety of resources to support their thinking about relevant social studies topics.

### **4<sup>TH</sup> GRADE ART**

4th grade students will explore and apply learning, processes, and techniques to two and three dimensional visual arts projects. Students will learn about, select, and use elements of art (such as line thickness, color, texture, and multimedia) to communicate ideas through artwork. They will communicate ideas about relevant visual arts topics, themes, and personally-created pieces for a specific purpose. Students will explore, identify, and make connections with art from Missouri, the United States, and around the world (such as Asia, Egypt, Africa and Europe) in order to compare and contrast artworks from different historical time periods and cultures.

### **4<sup>TH</sup> GRADE ENGLISH LANGUAGE ARTS**

4th grade students will develop and apply skills to the reading process including comprehension, vocabulary, and making connections to text, self and world. Students will read independently as appropriate for individual level. Students will develop and apply skills and strategies to comprehend, analyze, and evaluate nonfiction, fiction, poetry, and drama from a variety of cultures and times. Students will also comprehend and analyze words, images, graphics, and sounds in various media and digital forms to impact meaning. Understand how English is written and read using phonics, Phonemic Awareness, and increasing fluency. Students will also apply a writing process to develop a text for audience and purpose and compose well-developed writing texts for audience and purpose. Students will gather, analyze, evaluate, and use information from a variety of sources, communicate using conventions of English language including grammar, punctuation, capitalization, and spelling, as well as listen and speak for a variety of purposes and audiences.

### **4<sup>TH</sup> GRADE HEALTH**

4th grade students will identify structures and functions of the human body, such as the sensory and muscular systems. Students will identify important human relationships and the cause and effect of one's actions and ways to build and maintain relationships. They will identify and evaluate appropriate social interaction with

peers, including verbal and non verbal cues, and how to express oneself appropriately. Students will complete games, lessons, and activities to improve their understanding of physical activity and lifetime wellness, such as physical movement and identifying food choices that promote a healthy body.

#### **4<sup>TH</sup> GRADE MATH**

4th grade students will represent and solve problems involving multiplication and division, as well as understand and apply properties of operations and the relationship between multiplication and division. They will understand, use, and compare fractions and decimals and understand place value and properties of operations to perform multi-digit arithmetic. Students will identify mathematical patterns, classify multi-dimensional shapes, and represent and analyze data. Additionally, students will solve problems involving the measurement of time, liquid volumes, and weights of objects; they will understand the concepts of angle and measure angles, and they will understand and use concepts of area and perimeter.

#### **4<sup>TH</sup> GRADE MUSIC**

4th grade students will explore and improvise rhythmic, melodic patterns and make connections to relevant music content. They will demonstrate and state personal interest in musical selections and analyze a variety of music across cultures and genres to compare and contrast how specific music concepts are used for various purposes.

#### **4<sup>TH</sup> GRADE PHYSICAL EDUCATION**

4th grade students will identify structures and functions of the human body, such as the sensory and muscular systems. Students will identify important human relationships and the cause and effect of one's actions and ways to build and maintain relationships. They will identify and evaluate appropriate social interaction with peers, including verbal and non verbal cues, and how to express oneself appropriately. Students will complete games, lessons, and activities to improve their understanding of physical activity and lifetime wellness, such as physical movement and identifying food choices that promote a healthy body.

#### **4<sup>TH</sup> GRADE SCIENCE**

4th grade students will conduct investigations into matter and its interactions with other objects and environmental situations, as well as make observations and conduct investigations about forces such as pushing and pulling. They will plan and conduct investigations to determine cause and effect of specific relationships, such as predicting the amount of force applied to an object to affect the motion of the object. Students will make observations to identify the sources of energy, as well as identify methods of energy conservation and transfer. Students will compare and contrast the structure and function of plants and animals including internal and external parts that help them adapt and survive. Students will observe and investigate the Earth and its relationship with humans, weather, climate, and the Solar System. Finally, students will explore engineering concepts by asking questions, making observations, and gathering information about a

situation people want to change in order to define a simple problem that can be solved through the development of a new or improved object or tool.

#### **4<sup>TH</sup> GRADE SOCIAL STUDIES**

4th grade students will identify and explain reasons why we have rules, laws and documents (such as the Constitution and Bill of Rights), and other rights and roles as citizens. They will identify symbols of the United States and the State of Missouri, and they will understand the principles and processes of governments and other systems through certain periods in history. Students will develop historical perspective and thinking and become more aware of the passage of time, and they will understand and analyze the peaceful resolution of disputes through certain periods of history. They will identify the contributions of certain Missourians and Americans, as well as changes through history. Students will use or construct maps and globes for relevant social studies topics. Students will conduct research and use a variety of resources to support their thinking about relevant social studies topics.

#### **5<sup>TH</sup> GRADE ART**

5th grade students will explore and apply learning, processes, and techniques to two and three dimensional visual arts projects. Students will learn about, select, and use elements of art (such as line thickness, color, texture, and multimedia) to communicate ideas through artwork. They will communicate ideas about relevant visual arts topics, themes, and personally-created pieces for a specific purpose. Students will explore, identify, and make connections with art from Missouri, the United States, and around the world (such as Asia, Egypt, Africa and Europe) in order to compare and contrast artworks from different historical time periods and cultures.

#### **5<sup>TH</sup> GRADE ENGLISH LANGUAGE ARTS**

5th grade students will develop and apply skills to the reading process including comprehension, vocabulary, and making connections to text, self and world. Students will read independently as appropriate for individual level. Students will develop and apply skills and strategies to comprehend, analyze, and evaluate nonfiction, fiction, poetry, and drama from a variety of cultures and times. Students will also comprehend and analyze words, images, graphics, and sounds in various media and digital forms to impact meaning. Understand how English is written and read using phonics, Phonemic Awareness, and increasing fluency. Students will also apply a writing process to develop a text for audience and purpose and compose well-developed writing texts for audience and purpose. Students will gather, analyze, evaluate, and use information from a variety of sources, communicate using conventions of English language including grammar, punctuation, capitalization, and spelling, as well as listen and speak for a variety of purposes and audiences.

#### **5<sup>TH</sup> GRADE HEALTH**

5th grade students will identify structures and functions of the human body, such as the sensory and



muscular systems. Students will identify important human relationships and the cause and effect of one's actions and ways to build and maintain relationships. They will identify and evaluate appropriate social interaction with peers, including verbal and non verbal cues, and how to express oneself appropriately. Students will complete games, lessons, and activities to improve their understanding of physical activity and lifetime wellness, such as physical movement and identifying food choices that promote a healthy body.

## **5<sup>TH</sup> GRADE MATH**

5th grade students will represent and solve problems involving multiplication and division, as well as understand and apply properties of operations and the relationship between multiplication and division. They will understand, use, and compare fractions and decimals and understand place value and properties of operations to perform multi-digit arithmetic. Students will identify mathematical patterns, classify multi-dimensional shapes, and represent and analyze data. Additionally, students will understand and compute volume, as well as solve problems involving the measurement of time, liquid volumes, and weights of objects. They will understand the concepts of angle and measure angles, graph coordinates, and understand and use concepts of area and perimeter.

## **5<sup>TH</sup> GRADE MUSIC**

5th grade students will explore and improvise rhythmic, melodic patterns and make connections to relevant music content. They will demonstrate and state personal interest in musical selections and analyze a variety of music across cultures and genres to compare and contrast how specific music concepts are used for various purposes.

## **5<sup>TH</sup> GRADE PHYSICAL EDUCATION**

5th grade students will identify structures and functions of the human body, such as the sensory and muscular systems. Students will identify important human relationships and the cause and effect of one's actions and ways to build and maintain relationships. They will identify and evaluate appropriate social interaction with peers, including verbal and non verbal cues, and how to express oneself appropriately. Students will complete games, lessons, and activities to improve their understanding of physical activity and lifetime wellness, such as physical movement and identifying food choices that promote a healthy body.

## **5<sup>TH</sup> GRADE SCIENCE**

5th grade students will conduct investigations into matter and its interactions with other objects and environmental situations, as well as make observations and conduct investigations about forces such as pushing and pulling. They will plan and conduct investigations to determine cause and effect of specific relationships, such as the gravitational force exerted by Earth on objects. Students will make observations to identify the sources of energy, as well as identify methods of energy conservation and transfer, in order to understand the relationship between energy and forces and energy in chemical processes. Students will compare and contrast the structure and function of plants and animals including internal and external parts that help them

adapt and survive. They will also compare major organ systems that perform similar functions in different plants or animals. Students will observe and investigate the Earth and its relationship with humans, weather, climate, and the Solar System. Finally, students will explore engineering concepts by asking questions, making observations, and gathering information about a situation people want to change in order to define a simple problem that can be solved through the development of a new or improved object or tool.

## **5<sup>TH</sup> GRADE SOCIAL STUDIES**

5th grade students will identify and explain reasons why we have rules, laws and documents (such as the Constitution and Bill of Rights), and other rights and roles as citizens. They will identify symbols of the United States and the State of Missouri, and they will understand the principles and processes of governments and other systems through certain periods in history. Students will develop historical perspective and thinking and become more aware of the passage of time, and they will understand and analyze the peaceful resolution of disputes through certain periods of history. They will identify the contributions of certain Missourians and Americans, as well as changes through history. Students will use or construct maps and globes for relevant social studies topics. Students will conduct research and use a variety of resources to support their thinking about relevant social studies topics.

## **ACCELERATED MATH 7 A/B**

Combination of 7th and 8th grade Mathematics standards.

## **ACT PREP A/B**

This class will focus on learning and practicing strategies as well as reviewing content to improve ACT scores. Concepts reviewed include grammar and punctuation rules; algebra, geometry, and trigonometry principles; and reasoning skills for interpreting charts and graphs.

## **ALGEBRA 1 A/B**

Algebra I is organized around the families of functions, with special emphasis on linear and quadratic functions. Students will learn to represent them in multiple ways as verbal descriptions, equations, tables, and graphs. These functions will be applied and used to model real-world situations in order to solve arising problems. Students will also learn data analysis and apply geometric properties in the algebraic realm.

## **ALGEBRA I A/B**

Algebra I is organized around the families of functions, with special emphasis on linear and quadratic

functions. Students will learn to represent them in multiple ways as verbal descriptions, equations, tables, and graphs. These functions will be applied and used to model real-world situations in order to solve arising problems. Students will also learn data analysis and apply geometric properties in the algebraic realm.

### **ALGEBRA I A/B (BOTH)**

Algebra I is organized around the families of functions, with special emphasis on linear and quadratic functions. Students will learn to represent them in multiple ways as verbal descriptions, equations, tables, and graphs. These functions will be applied and used to model real-world situations in order to solve arising problems. Students will also learn data analysis and apply geometric properties in the algebraic realm.

### **ALGEBRA II A/B**

Algebra II continues the study of algebra, the representation of quantities using variables and mathematical operations to show relationships. Students will represent relationships and functions with linear equations and explore relationships of direct and indirect variation. Students will explore quadratic functions and perform operations with complex numbers. Polynomials and their properties will be explored and graphed. Students will explore exponential relationships, logarithmic functions, and probabilities.

### **ALGEBRA II A/B (BOTH)**

Algebra II continues the study of algebra, the representation of quantities using variables and mathematical operations to show relationships. Students will represent relationships and functions with linear equations and explore relationships of direct and indirect variation. Students will explore quadratic functions and perform operations with complex numbers. Polynomials and their properties will be explored and graphed. Students will explore exponential relationships, logarithmic functions, and probabilities.

### **ALGEBRA II HONORS A/B**

Algebra II continues the study of algebra, the representation of quantities using variables and mathematical operations to show relationships. Students will represent relationships and functions with linear equations and explore relationships of direct and indirect variation. Students will explore quadratic functions and perform operations with complex numbers. Polynomials and their properties will be explored and graphed. Students will explore exponential relationships, logarithmic functions, and probabilities.

## **AMERICAN BASEBALL HISTORY**

This course surveys and interprets the history of baseball in the United States. Major topics studied are “Origins of Sport”, “Professionalism and the National Pastime”, “Troubles of Big Business”, “Baseball and America from the Progressive Era through the 1920s”, “Baseball, the Great Depression, and World War II”, “Baseball and the African American Experience,” “Baseball and Post War America: 1950s-1960s,” and “Baseball and America in the 1970s and 1980s.” The course deals with both the role and significance of baseball in American society over the past 150 years and with the history of the game itself.

## **AP CALCULUS AB A/B**

Topics include analyzing functions, limits, differentiation, curve sketching, extreme value problems, anti-differentiation, definite integration, areas under curves, and volumes of solids.

## **AP CALCULUS BC A/B**

Topics include the study of functions, differentiation, integration, applications in integration, indeterminate forms, improper integrals, sequences, series, conic sections, parameterization, and polar coordinates.

## **AP COMPUTER SCIENCE A/B**

This course focuses on computer programming skills in Java.

## **AP COMPUTER SCIENCE PRINCIPLES A/B**

This course will explore systematic problem-solving strategies that can be applied to real-world problems. The focus will be on writing full classes and the logic and structures around building them.

## **AP ENGLISH LITERATURE & COMPOSITION A/B**

In this course, critical analysis of the structure and genre of literature corresponds to an approach to writing about literary works, including writing to understand, to explain, and to evaluate.

## **AP EUROPEAN HISTORY A/B**

This course develops (a) an understanding of some of the principal themes in modern European history, (b) an ability to analyze historical evidence and historical interpretation, and (c) an ability to express historical understanding in writing.

## **AP PHYSICS I A/B**

An algebra/trigonometry based course in physics where students will investigate kinematics, Newton's laws, torque, rotational motion and angular momentum, gravitation, circular motion, work, energy, power, linear momentum, mechanical waves and sound, and electric circuits.

### **AP PSYCHOLOGY A/B**

Topics include the facts, principles, and phenomena associated with each of the major subfields within psychology, the ethical considerations and methods psychologists use, and the strengths and limitations of various psychological approaches and research methods.

### **AP STATISTICS A/B**

The purpose of AP Statistics is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data. It is not a Calculus-based course.

### **AP UNITED STATES GOVERNMENT & POLITICS A/B**

This course examines politically significant concepts and themes that characterize the political culture of the United States, through which students learn to apply disciplinary reasoning, assess causes and consequences of political events, and interpret data to develop evidence-based arguments.

### **AP UNITED STATES HISTORY A/B**

Students learn to assess historical materials related to U.S. History – their relevance to a given interpretive problem, reliability, and importance – and to weigh the evidence and interpretations presented in historical scholarship.

### **ASTRONOMY A/B**

This course is a multidisciplinary, laboratory based course which examines the structure and composition of the planets, stars, galaxies, and the universe. The topics will include, but are not limited to, observing the night sky, planetary features, planetary motions, the sun, stars, galaxies, and the universe.

### **CHEMISTRY A/B**

Chemistry involves the analysis of chemical concepts and the application of basic algebraic skills. It is not as math intensive as Honors Chemistry but does include more mathematical problem solving and independent practice than Introductory Chemistry. Laboratory work is an important part of this course.

### **CHEMISTRY HONORS A/B**

Honors Chemistry involves the analysis of chemical concepts and the application of basic algebraic skills. It is more math intensive than the regular Chemistry course and it also includes more mathematical problem solving and independent practice than Introductory Chemistry. Laboratory work is an important part of this course.

### **CHILD DEVELOPMENT I A/B**

This course addresses the concepts related to understanding the areas and stages of child growth and development, recognizing effects of heredity and environment on human growth and development, promoting optimum growth and development in the prenatal, and infancy stages. Careers in child development are explored.

### **CIVIL WAR**

This course covers the American Civil War era from the earliest seeds of disunion at the Constitutional Convention to the end of Reconstruction. Particular attention will be given to events that unfolded in Missouri, the Ozarks, and the Trans-Mississippi Theater and their subsequent results. The strands of the K-12 Social Studies Curriculum, economics, government, geography, multicultural and current perspectives and citizenship will be utilized to understand this period of history.

### **COLLEGE ALGEBRA**

This course is a standard course in college-level algebra. Topics include (but are not limited to) properties of functions; polynomial, rational, exponential, logarithmic functions and their graphs; and conic sections. Dual enrollment for college credit may be available.

### **COMP I: GRAMMAR & COMP**

Students develop proficiency in writing for academic and professional purposes and learning to produce, copy-edit, and publish quality research writing.

### **COMP II: ADV COMP**

Provides an intensive and immersive research reading experience, both guided and self-directed, with students becoming conversant and current in the areas of academic and professional discourse most relevant to them, and enjoying opportunities to reflect on, share, and act upon that learning in ways that help them and their communities.

### **COMPUTER APPLICATIONS**

Through hands-on exploration and project-based approach, students will continue to stand out in digital

productivity. Colleges and the workplace require skill in Microsoft Office. By using advanced techniques in Microsoft Office, students will create an electronic portfolio.

### **CONTEMPORARY LITERATURE A/B**

This course explores major themes in contemporary novels and non-fiction texts. Students will read, discuss, research, and analyze literary selections. They will examine authors' techniques and will gain awareness of how literature reflects society. Students will read and write about a variety of works including literature from different cultures, authors and societies; young adult literature; and contemporary literature. The course will help students become more culturally literate and globally aware while developing vocabulary, reading comprehension, and composition skills.

### **CONTEMPORARY LITERATURE HONORS A/B**

This course explores major themes in contemporary novels and non-fiction texts. Students will read, discuss, research, and analyze literary selections. They will examine authors' techniques and will gain awareness of how literature reflects society. Students will read and write about a variety of works including literature from different cultures, authors and societies; young adult literature; and contemporary literature. The course will help students become more culturally literate and globally aware while developing vocabulary, reading comprehension, and composition skills.

### **CREATIVE WRITING I**

Creative Writing is an in-depth writing course that gives students the opportunity to further develop their talent in the areas of personal essay, fiction, poetry, and drama. In a collaborative workshop structure, students will explore numerous types of genres as they work through the writing process and will be expected to identify their strengths and weaknesses as a writer. Students will analyze texts of published authors and use their speaking and listening skills to share their writing.

### **CREATIVE WRITING II**

Creative Writing is an in-depth writing course that gives students the opportunity to further develop their talent in the areas of personal essay, fiction, poetry, and drama. In a collaborative workshop structure, students will explore numerous types of genres as they work through the writing process and will be expected to identify their strengths and weaknesses as a writer. Students will analyze texts of published authors and use their speaking and listening skills to share their writing.

### **DIGITAL COMMUNICATIONS**

This course is designed to teach students various digital input and manipulation methods. Emphasis is placed on typing personal and business letters and reports. The students will explore proper keyboarding technique, voice and handwriting recognition. Units on file management email and 10-key will also be covered.

### **DISCOVER COMPUTER CODING 1**

Discover Computer Coding I covers foundational concepts and skills of computer science. Students will learn core computing concepts through interactive project-based coding practices using drag-to-text coding to help students gain familiarity with Python syntax and commands. Discover Computer Coding I is a great place for students to begin their coding journey.

### **DISCOVER COMPUTER CODING 2**

Discover Computer Coding II covers foundational concepts and skills of computer science. Students will learn computer programs to express themselves and solve problems. Discover Computer Coding II is a great place for students to continue their coding journey.

### **DRIVER EDUCATION**

This course provides classroom instruction with a focus on the skills, responsible attitudes, and behaviors needed to become a safe driver. This course is dedicated to the concept of helping young drivers save lives – their lives as well as the lives of others. While taking the course, students will also learn about the basic traffic laws and rules of the road that apply to common everyday driving situations.

### **EARTH SCIENCE A/B**

This is a laboratory course that integrates the study of the earth and our physical world and builds upon those concepts introduced in middle school science courses. The study of the earth will include an introduction to the science of the earth; properties and processes of its surface and interior including plate tectonics, volcanism, earthquakes, glaciation, mountain building, formation of rocks, minerals, and the structural basis of landforms, its history and our place in the universe. A study of atmospheric processes and weather elements will also be a part of this course.

### **EARTH SCIENCE A/B (BOTH)**

This is a laboratory course that integrates the study of the earth and our physical world and builds upon those concepts introduced in middle school science courses. The study of the earth will include an introduction to the science of the earth; properties and processes of its surface and interior including plate tectonics, volcanism, earthquakes, glaciation, mountain building, formation of rocks, minerals, and the structural basis of landforms, its history and our place in the universe. A study of atmospheric



processes and weather elements will also be a part of this course.

### **EARTH SCIENCE HONORS A/B**

This is a laboratory course that integrates the study of the earth and our physical world and builds upon those concepts introduced in middle school science courses. The study of the earth will include an introduction to the science of the earth; properties and processes of its surface and interior including plate tectonics, volcanism, earthquakes, glaciation, mountain building, formation of rocks, minerals, and the structural basis of landforms, its history and our place in the universe. A study of atmospheric processes and weather elements will also be a part of this course.

### **ECONOMICS**

This course presents the philosophy and principles of economic concepts. It consists of a study of the nature and method of economics; opportunity cost; business organization, supply and demand; the market system and competitive enterprise; money, banking and monetary policy; resource allocation; and international economics. This course is designed to cross subject area lines when appropriate in order to give the student a broad view of concepts under investigation.

### **EMPLOYMENT INTERNSHIP**

This course will provide students with the opportunity to earn high school credit for working outside of school. Students will submit their work hours and complete assignments related to career readiness. Students should have their employment location set by the time the class starts.

### **ENGLISH I A/B**

English I builds on reading, writing, listening and speaking, and information literacy skills begun in middle school. Literature includes thematic units consisting of novels, short stories, plays, poetry, and nonfiction. Writing includes varied composition experiences.

### **ENGLISH I A/B (BOTH)**

English I builds on reading, writing, listening and speaking, and information literacy skills begun in middle school. Literature includes thematic units consisting of novels, short stories, plays, poetry, and nonfiction. Writing includes varied composition experiences.

### **ENGLISH I HONORS A/B**

English I builds on reading, writing, listening and speaking, and information literacy skills begun in middle school. Literature includes thematic units consisting of novels, short stories, plays, poetry, and nonfiction. Writing includes varied composition experiences.

### **ENGLISH II A/B**

In this course students will engage in writing, reading, speaking and listening. This course builds on skills learned in earlier grades. Students will also learn to analyze literature, identifying ideas, themes, and literary elements; but they also are encouraged to respond personally to works. As students work through this course they will read and respond to a variety of nonfiction texts and produce personal and nonfiction writings, at times based on research.

### **ENGLISH II A/B (BOTH)**

In this course students will engage in writing, reading, speaking and listening. This course builds on skills learned in earlier grades. Students will also learn to analyze literature, identifying ideas, themes, and literary elements; but they also are encouraged to respond personally to works. As students work through this course they will read and respond to a variety of nonfiction texts and produce personal and nonfiction writings, at times based on research.

### **ENGLISH II HONORS A/B**

In this course students will engage in writing, reading, speaking and listening. This course builds on skills learned in earlier grades. Students will also learn to analyze literature, identifying ideas, themes, and literary elements; but they also are encouraged to respond personally to works. As students work through this course they will read and respond to a variety of nonfiction texts and produce personal and nonfiction writings, at times based on research.

### **ENGLISH III A/B**

This course enlarges the students' understanding of their heritage through an integrated study of American literature. Through responding to fiction, nonfiction, drama, and poetry, both formally and informally, students examine the literature of the American experience. Although students entering the class should have basic writing skills, further development of composition modes and media are integrated into an extensive reading and language study.

### **ENGLISH III A/B (BOTH)**

This course enlarges the students' understanding of their heritage through an integrated study of American literature. Through responding to fiction, nonfiction, drama, and poetry, both formally and informally, students examine the literature of the American experience. Although students entering the class should have basic writing skills, further development of composition modes and media are integrated into an extensive reading and language study.

### **ENGLISH III HONORS A/B**

This course enlarges the students' understanding of their heritage through an integrated study of American literature. Through responding to fiction, nonfiction, drama, and poetry, both formally and informally, students examine the literature of the American experience. Although students entering the class should have basic writing skills, further development of composition modes and media are integrated into an extensive reading and language study.

### **ENGLISH IV A/B**

In this course students compare and evaluate significant writers and their works by exploring recurring themes and ideas. Writing, inspired by the literature studied, personal experience, and source-based research, will be an important part of this course. Students are expected to undertake a research project.

### **ENGLISH IV A/B (BOTH)**

In this course students compare and evaluate significant writers and their works by exploring recurring themes and ideas. Writing, inspired by the literature studied, personal experience, and source-based research, will be an important part of this course. Students are expected to undertake a research project.

### **ENGLISH LANGUAGE ARTS 6 A/B**

English Language Arts focuses on four methods of effective communication including writing, reading, listening, and speaking. Emphasis will be on practice, demonstration, and application of the acquired knowledge. Students will apply these skills for success in the classroom and in the future.

### **ENGLISH LANGUAGE ARTS 6 A/B (BOTH)**

English Language Arts focuses on four methods of effective communication including writing, reading, listening, and speaking. Emphasis will be on practice, demonstration, and application of the acquired knowledge. Students will apply these skills for success in the classroom and in the future.

## **ENGLISH LANGUAGE ARTS 7 A/B**

Grade 7 English Language Arts helps develop students' critical language arts: writing, reading, listening, speaking, and research. Students will develop skills necessary to become lifelong learners as they see the whole picture the connectedness of reading, writing, listening, and responding in language arts as well as the connectedness of all the disciplines.

## **ENGLISH LANGUAGE ARTS 7 A/B (BOTH)**

Grade 7 English Language Arts helps develop students' critical language arts: writing, reading, listening, speaking, and research. Students will develop skills necessary to become lifelong learners as they see the whole picture the connectedness of reading, writing, listening, and responding in language arts as well as the connectedness of all the disciplines.

## **ENGLISH LANGUAGE ARTS 8 A/B**

Grade 8 English Language Arts is designed to further develop the students' interest and competency in reading, writing, speaking, listening, and information literacy. The major emphasis of this course is on the implementation of the writing process to further develop their composition skills. In addition to writing for a variety of purposes and audiences, the students will be given opportunities to develop skills and knowledge in reading literature for understanding and enjoyment. An emphasis is also placed on study skills and critical thinking.

## **ENGLISH LANGUAGE ARTS 8 A/B (BOTH)**

Grade 8 English Language Arts is designed to further develop the students' interest and competency in reading, writing, speaking, listening, and information literacy. The major emphasis of this course is on the implementation of the writing process to further develop their composition skills. In addition to writing for a variety of purposes and audiences, the students will be given opportunities to develop skills and knowledge in reading literature for understanding and enjoyment. An emphasis is also placed on study skills and critical thinking.

## **FACS INTERNSHIP**

Students will have the opportunity to explore a FACS related career through on-site learning experiences. This course is designed for students with an interest in one of the following areas: child development; fashion merchandising; clothing construction; family studies; foods and nutrition; culinary arts. Students will develop an awareness of career-related responsibilities and will have the opportunity to apply skills gained through high school education as they work.

## **FILM AS LITERATURE I**

This course is an in-depth study of film production and film writing from a literary perspective. Students will engage with a variety of films through many thematic units, including but not limited to the history of film production, telling a story through visuals, a director's study, adapting a book to film, film genre study, creating stop-motion animation, and telling their own story in film. Students will analyze the literary, dramatic, and cinematic devices of film through small group and whole class discussion, in formal and informational writing, and through collaborative projects with classmates. Through questioning and critical analysis, students will become more perceptive viewers of film.

## **FILM AS LITERATURE II**

This course is an in-depth study of film production and film writing from a literary perspective. Students will engage with a variety of films through many thematic units, including but not limited to the history of film production, telling a story through visuals, a director's study, adapting a book to film, film genre study, creating stop-motion animation, and telling their own story in film. Students will analyze the literary, dramatic, and cinematic devices of film through small group and whole class discussion, in formal and informational writing, and through collaborative projects with classmates. Through questioning and critical analysis, students will become more perceptive viewers of film.

## **FINANCIAL ACCOUNTING A/B**

This course is designed to build a basic understanding of manual and automated accounting principles, concepts, and procedures which are necessary for businesses to make financial decisions. Students will develop business skills such as: creating and developing spreadsheets, 10-key operation, financial problem solving, professional accounting software, and basic business principles.

## **FINE ART APPRECIATION MUSIC**

Students enrolled in this online course will be introduced to music of the 20th century and how it affected the culture of America. Units to be covered may include, but not be limited to Jazz, Rock n Roll, Motown, and Hip Hop.

## **FINE ARTS APPRECIATION ART**

Students enrolled in this online course will be introduced to visual art ideas as they relate to the history and context in which art is made. Students will interact with art through the lens of a tourist, a critic and a curator through activities that include virtually visiting museums around the world, blogging, and curating a virtual exhibition.

## **FINE ARTS APPRECIATION ART (BOTH)**

Students enrolled in this online course will be introduced to visual art ideas as they relate to the history and context in which art is made. Students will interact with art through the lens of a tourist, a critic and a curator through activities that include virtually visiting museums around the world, blogging, and curating a virtual exhibition.

## **FOUNDATIONS OF ALGEBRA A/B**

Foundations of Algebra provides students with the fundamental skills required to be successful in future algebra courses. Students will study concepts of number and operations, algebraic relationships, and probability. Students will learn algebraic concepts including (but not limited to) solving linear equations and graphing. It will prepare students to become critical thinkers. Through mathematics, students not only need to develop skills with numbers, but develop the ability to set up problems, approach problems with a variety of techniques, and understand the underlying mathematical features of such problems.

## **FRENCH 1 A/B**

In French I, the student begins to understand, speak, read and write French. Conversational skills using the present tense and practical vocabulary are emphasized. Students also begin to study the culture of French-speaking peoples.

## **FRENCH I A/B**

In French I, the student begins to understand, speak, read and write French. Conversational skills using the present tense and practical vocabulary are emphasized. Students also begin to study the culture of French-speaking peoples.

## **FRENCH II A/B**

French II builds on the first-level course. Students increase their vocabulary, are introduced to the past tense, and improve conversational, reading, and writing skills. Students continue to study the culture of French-speaking peoples.

## **FRENCH III A/B**

In French III, students continue to develop skills in speaking, listening and writing French. At this level there is increased emphasis on vocabulary development, oral proficiency, expression in past and various other tenses. Students continue to expand knowledge of the culture of language-speaking peoples.

### **GENERAL BIOLOGY A/B**

This course provides an overview of the processes of living things, from a cellular level to the biosphere. It is a valuable course for any student, especially those requiring a general knowledge of biology for postsecondary study or careers in the fields of health or environmental sciences. Laboratory activities integrating scientific investigation and process skills make up an important component of this course.

### **GENERAL BIOLOGY A/B (BOTH)**

This course provides an overview of the processes of living things, from a cellular level to the biosphere. It is a valuable course for any student, especially those requiring a general knowledge of biology for postsecondary study or careers in the fields of health or environmental sciences. Laboratory activities integrating scientific investigation and process skills make up an important component of this course.

### **GENERAL BIOLOGY HONORS A/B**

This course provides an overview of the processes of living things, from a cellular level to the biosphere. It is a valuable course for any student, especially those requiring a general knowledge of biology for postsecondary study or careers in the fields of health or environmental sciences. Laboratory activities integrating scientific investigation and process skills make up an important component of this course.

### **GEOMETRY A/B**

Geometry will require students to explore complex geometric situations and deepen their explanations of geometric relationships, moving towards formal mathematical arguments. Emphasis is placed on using deductive reasoning in the analysis of topics such as parallel lines, circles, polygon congruence, similarity, area, volume, and probability.

### **GEOMETRY A/B (BOTH)**

Geometry will require students to explore complex geometric situations and deepen their explanations of geometric relationships, moving towards formal mathematical arguments. Emphasis is placed on using deductive reasoning in the analysis of topics such as parallel lines, circles, polygon congruence, similarity, area, volume, and probability.

### **GEOMETRY HONORS A/B**

Geometry will require students to explore complex geometric situations and deepen their explanations

of geometric relationships, moving towards formal mathematical arguments. Emphasis is placed on using deductive reasoning in the analysis of topics such as parallel lines, circles, polygon congruence, similarity, area, volume, and probability.

### **GERMAN 1 A/B**

In German I, students will acquire an elementary ability to listen, speak, read, and write the German language. This course emphasizes the skills needed for useful daily communication, e.g. making friends, expressing one's needs and preferences, seeking and giving directions, etc. Along with learning the language, students will also be introduced to German culture.

### **GERMAN I A/B**

In German I, students will acquire an elementary ability to listen, speak, read, and write the German language. This course emphasizes the skills needed for useful daily communication, e.g. making friends, expressing one's needs and preferences, seeking and giving directions, etc. Along with learning the language, students will also be introduced to German culture.

### **GERMAN II A/B**

In German II, students will acquire an elementary ability to listen, speak, read, and write the German language. This course emphasizes the skills needed for useful daily communication, e.g. making friends, expressing one's needs and preferences, seeking and giving directions, etc. Along with learning the language, students will also be introduced to German culture.

### **HEALTH**

The purpose of this course is to help students gain the necessary knowledge to make sound health decisions regarding their personal health and wellness. Instruction may include units covering mental health, heart disease, CPR, cancer and carcinogenic agents, reproduction and sexually transmitted diseases, substance abuse, personal health care, and chronic and infectious diseases.

### **HEALTH 6**

The purpose of this course is to help students gain the necessary knowledge to make sound health decisions regarding their personal health and wellness. Instruction may include units covering healthy foundations, mental and emotional health, nutrition and physical activity, growth and development, diseases and disorders, substance abuse, and sex education.



## **HEALTH 7**

The purpose of this course is to help students gain the necessary knowledge to make sound health decisions regarding their personal health and wellness. Instruction may include units covering healthy foundations, mental and emotional health, nutrition and physical activity, growth and development, diseases and disorders, substance abuse, and sex education.

## **HEALTH 8**

The purpose of this course is to help students gain the necessary knowledge to make sound health decisions regarding their personal health and wellness. Instruction may include units covering healthy foundations, mental and emotional health, nutrition and physical activity, growth and development, diseases and disorders, substance abuse, and sex education.

## **INTRODUCTION TO BIOLOGY A/B**

This course provides an overview of the processes of living things, from a cellular level to the biosphere. It is a valuable course for any student, especially those requiring a general knowledge of biology for postsecondary study or careers in the fields of health or environmental sciences. Laboratory activities integrating scientific investigation and process skills make up an important component of this course.

## **INTRODUCTION TO BIOLOGY A/B (BOTH)**

This course provides an overview of the processes of living things, from a cellular level to the biosphere. It is a valuable course for any student, especially those requiring a general knowledge of biology for postsecondary study or careers in the fields of health or environmental sciences. Laboratory activities integrating scientific investigation and process skills make up an important component of this course.

## **INTRODUCTION TO CHEMISTRY A/B**

This course provides students an opportunity to discover what chemistry is about without moving into highly theoretical and mathematical studies. Laboratory investigations will be included. Many of the basic concepts of chemistry will be investigated, including the structure of matter and the application of chemistry to the environment and to society.

## **INTRODUCTION TO COMPUTER SCIENCE**

This course is an introduction to computer programming, intended for the student who is interested in learning to write and interpret JAVA computer programs to solve problems in a structured environment. This course is designed for students who have an interest and ability in mathematics, science, or

business. It will cover basic terminology, history, input/output control, decision control, repetition, functions, arrays, and elementary strings.

### **INTRODUCTION TO SPEECH A/B**

This course is for students who want to learn to think clearly and express themselves effectively before an audience. Students are provided opportunities to develop and increase their self-confidence and fluency as speakers. The course covers multiple aspects of public speaking and gives the student practical experience through participation. Students are introduced to the study of poise, use of body and voice, oral interpretation of literature, beginning argumentation, and speaking in front of an audience.

### **JAPANESE 1 A/B**

In Japanese I, the student begins to understand, speak, read and write Japanese. Conversational skills using the present tense and practical vocabulary are emphasized. Students also begin to study the culture of Japanese-speaking peoples.

### **JAPANESE I A/B**

In Japanese I, the student begins to understand, speak, read and write Japanese. Conversational skills using the present tense and practical vocabulary are emphasized. Students also begin to study the culture of Japanese-speaking peoples.

### **JAPANESE II A/B**

Japanese II builds on the first-level course. Students increase their vocabulary, are introduced to the past tense, and improve conversational, reading, and writing skills. Students continue to study the culture of Japanese-speaking peoples.

### **LIBERTY & LAW**

This course is designed to be the culminating experience in the student's required social studies program bringing together and expanding the knowledge from prior study of the following areas: citizenship, Current events, multicultural perspectives, history, geography, economics, and government. The students will be expected to demonstrate, through examination, understanding the basic provisions and principles of The Constitutions of the United States and of the State of Missouri as prescribed by state statute.

### **LIBERTY & LAW (BOTH)**

This course is designed to be the culminating experience in the student's required social studies program bringing together and expanding the knowledge from prior study of the following areas: citizenship, Current events, multicultural perspectives, history, geography, economics, and government. The students will be expected to demonstrate, through examination, understanding the basic provisions and principles of The Constitutions of the United States and of the State of Missouri as prescribed by state statute.

### **LIBERTY & LAW HONORS**

This course is designed to be the culminating experience in the student's required social studies program bringing together and expanding the knowledge from prior study of the following areas: citizenship, Current events, multicultural perspectives, history, geography, economics, and government. The students will be expected to demonstrate, through examination, understanding the basic provisions and principles of The Constitutions of the United States and of the State of Missouri as prescribed by state statute.

### **MATHEMATICS 6 A/B**

Meets 6th grade Math Standards

### **MATHEMATICS 6 A/B (BOTH)**

Meets 6th grade Math Standards with synchronous component

### **MATHEMATICS 7 A/B**

Meets 7th grade Math Standards

### **MATHEMATICS 7 A/B (BOTH)**

Meets 7th grade Math Standards with synchronous component

### **MATHEMATICS 8 A/B**

Meets 8th grade Math Standards

### **MATHEMATICS 8 A/B (BOTH)**

Meets 8th grade Math Standards with synchronous component

### **MUSIC THEORY A/B**

The purpose of the Music Theory course is to provide a program of study which allows high school students the opportunity to deepen their understanding of Music Theory. This course will provide the highly motivated music student with educational and musical opportunities beyond the regular performance ensembles for a thorough, rigorous, and challenging course of study. The class will require

musical analysis, synthesis, and evaluation skills.

## **PERSONAL FINANCE**

Personal Finance is designed to help students apply decision-making skills to earning and spending an income, establishing and enhancing savings and investments, insurance, using credit, and managing money. Three hours of free college credit is available through the OTC articulation agreement.

## **PHYSICAL EDUCATION 6**

Physical Education for middle school students is designed so that students can continue to develop skills in familiar sports and acquire skills and knowledge in new sports. Physical Education is also emphasized with short sessions of jogging, stretching, rhythm, and resistance exercises as a part of each day's activities. The goal of Physical Education is to provide each student with the knowledge and desire to pursue fitness throughout life.

## **PHYSICAL EDUCATION 7**

Physical Education for middle school students is designed so that students can continue to develop skills in familiar sports and acquire skills and knowledge in new sports. Physical Education is also emphasized with short sessions of jogging, stretching, rhythm, and resistance exercises as a part of each day's activities. The goal of Physical Education is to provide each student with the knowledge and desire to pursue fitness throughout life.

## **PHYSICAL EDUCATION 8**

Physical Education for middle school students is designed so that students can continue to develop skills in familiar sports and acquire skills and knowledge in new sports. Physical Education is also emphasized with short sessions of jogging, stretching, rhythm, and resistance exercises as a part of each day's activities. The goal of Physical Education is to provide each student with the knowledge and desire to pursue fitness throughout life.

## **PHYSICAL EDUCATION I**

Students in this course will deal primarily with the concepts and improvement of physical fitness. It is designed to provide the student with the knowledge and desire to pursue physical fitness throughout life. The course will include a variety of lab experiences, lectures, written tests, and fitness tests. Of particular importance are the health related aspects of fitness – cardiovascular endurance, strength, muscular endurance, flexibility and body fat composition.

## **PHYSICAL FITNESS**

Students in this Physical Fitness will gain an understanding and appreciation of the lifetime need for fitness. Students will participate in group and individual activities to develop all aspects of health related fitness and the proper components of weight training principles. This course uses a combination of traditional assignments and logging exercise hours.

## **PHYSICAL SCIENCE A/B**

Physical science is the study of the physical world around you. Physical science can be broken up into two branches, chemistry and physics. Topics covered are matter and its interactions, forces and interactions, energy, and waves and their applications. Students will participate in application of these concepts through virtual labs, projects, and writing assignments.

## **PHYSICAL SCIENCE A/B (BOTH)**

Physical science is the study of the physical world around you. Physical science can be broken up into two branches, chemistry and physics. Topics covered are matter and its interactions, forces and interactions, energy, and waves and their applications. Students will participate in application of these concepts through virtual labs, projects, and writing assignments.

## **PHYSICAL SCIENCE A/B HONORS**

Physical science is the study of the physical world around you. Physical science can be broken up into two branches, chemistry and physics. Topics covered are matter and its interactions, forces and interactions, energy, and waves and their applications. Students will participate in application of these concepts through virtual labs, projects, and writing assignments.

## **PRE-CALCULUS**

Precalculus is a course designed for students who are planning to take Calculus and are interested in a math- or science-related career. Students in this course will study functions, graphing, limits, and other advanced topics.

## **PROFESSIONAL MATH A/B**

Professional math will introduce the applications of mathematics in areas such as cryptography, history, music, weather, architecture, baseball and crime scene analysis. Students in this course are not expected to have especially strong math skills or scientific backgrounds. Students will be exposed to number theory, trigonometry and calculus, group theory, geometry, probability, and mathematical modeling. Concepts will be applied immediately to the problems that motivated them.

## **PSYCHOLOGY**

This psychology survey course is designed to help each student gain insight into human behavior. Through this course students will be introduced to the content, terminology, methodology, and application of the discipline. Students will also identify current events and issues in psychology on a regular basis.

## **PSYCHOLOGY OF THE HOLOCAUST A/B**

The unique historic events that have come to be known as the Holocaust will be used as a vehicle to analyze and explore psychological concepts such as attitude formation, personality development, discrimination, the bystander effect, learned behavior, motivation, and multiple aspects of both individual and group behavior. This course will examine how diverse forms of individual and social behavior can exist in the midst of a dysfunctional social order like that of Germany prior to and during the Holocaust, as well as explore other acts of genocide.

## **READING A/B**

This course is designed for students that may be reading below, on, or above grade level. The purpose of this course is to provide a reading program with differentiated instruction for students based on each student's individual reading ability. This is possible through the use of the Reading Plus program, where students will complete online activities based on need, and through specific Canvas assignments that will reinforce the work students complete on Reading Plus. Students will also interact with texts matched to their reading level along with project content that is appropriate for high school students and based on personal interest.

## **READING MIDDLE SCHOOL**

This course is designed for students that may be reading below, on, or above grade level. The purpose of this course is to provide a reading program with differentiated instruction for students based on each student's individual reading ability. This is possible through the use of the Reading Plus program, where students will complete online activities based on need, and through specific Canvas assignments that will reinforce the work students complete on Reading Plus. Students will also interact with texts matched to their reading level along with project content that is appropriate for high school students and based on personal interest.

## **SCIENCE 6 A/B**

Sixth grade science will provide an opportunity for students to investigate objectives within the subject content area of earth science and explore the relevance of science and technology to society. Objectives will be achieved through problem based learning units and inquiry using a hands-on approach.

### **SCIENCE 6 A/B (BOTH)**

Sixth grade science will provide an opportunity for students to investigate objectives within the subject content area of earth science and explore the relevance of science and technology to society. Objectives will be achieved through problem based learning units and inquiry using a hands-on approach.

### **SCIENCE 7 A/B**

Seventh grade science will provide an opportunity for students to increase learning about life science concepts and apply those concepts to the world around them. This course will emphasize hands-on laboratory activities through the use of scientific inquiry and the scientific method. A variety of lab equipment and techniques will be used to investigate the physiology, ecology, heredity, and life processes of living organisms.

### **SCIENCE 7 A/B (BOTH)**

Seventh grade science will provide an opportunity for students to increase learning about life science concepts and apply those concepts to the world around them. This course will emphasize hands-on laboratory activities through the use of scientific inquiry and the scientific method. A variety of lab equipment and techniques will be used to investigate the physiology, ecology, heredity, and life processes of living organisms.

### **SCIENCE 8 A/B**

Eighth grade science provides students of all ability levels with hands-on learning opportunities to acquire and enhance a solid in-depth foundation of knowledge, literacy, and skills in the areas of introductory chemical and physical science concepts. An integrated approach using technology will be used to investigate and measure the properties of matter, energy, force, and motion. Applications to everyday experiences will be utilized to engage students in investigative processes and scientific inquiry.

### **SCIENCE 8 A/B (BOTH)**

Eighth grade science provides students of all ability levels with hands-on learning opportunities to acquire and enhance a solid in-depth foundation of knowledge, literacy, and skills in the areas of introductory chemical and physical science concepts. An integrated approach using technology will be used to investigate and measure the properties of matter, energy, force, and motion. Applications to everyday experiences will be utilized to engage students in investigative processes and scientific inquiry.

### **SOCIAL STUDIES 6 A/B**

This course, required of all sixth grade students, is an introduction to ancient world history. Topics of study include early civilizations, geography's impact on history, classical civilizations, foundations for representative government, kingdoms, feudalism, Christianity, Crusades (exchange), regional interconnectedness, and conflict.

### **SOCIAL STUDIES 6 A/B (BOTH)**

This course, required of all sixth grade students, is an introduction to ancient world history. Topics of study include early civilizations, geography's impact on history, classical civilizations, foundations for representative government, kingdoms, feudalism, Christianity, Crusades (exchange), regional interconnectedness, and conflict.

### **SOCIAL STUDIES 7 A/B**

This course is required of all seventh grade students and is an introduction to world geography, including the study of the United States, Canada, Latin America, Europe, Russia, Middle East, North America, Sub-Saharan Africa, South Asia, East Asia, and Oceania. Focus will also be on the five themes of geography.

### **SOCIAL STUDIES 7 A/B (BOTH)**

This course is required of all seventh grade students and is an introduction to world geography, including the study of the United States, Canada, Latin America, Europe, Russia, Middle East, North America, Sub-Saharan Africa, South Asia, East Asia, and Oceania. Focus will also be on the five themes of geography.

### **SOCIAL STUDIES 8 A/B**

This course is a study of American history from Colonization through the Civil War, which will integrate citizenship, multicultural, cultural events, history, geography, economics, and governmental objectives using primary and secondary sources. Students will be provided with the background knowledge, concepts, values, and skills to become effective citizens.

### **SOCIAL STUDIES 8 A/B (BOTH)**

This course is a study of American history from Colonization through the Civil War, which will integrate citizenship, multicultural, cultural events, history, geography, economics, and governmental objectives using primary and secondary sources. Students will be provided with the background knowledge,



concepts, values, and skills to become effective citizens.

## **SOCIOLOGY**

This sociology survey course is designed to provide students with a basic understanding of how societies are formed and how they function. Sociology is a study of people in group relationships and integrates all the disciplines of social movement. This course addresses values, norms, culture, socialization, social stratification and social institutions. It may also include consideration of social problems such as crime, poverty, prejudice and discrimination, collective behavior and social movements.

## **SOCIOLOGY HONORS**

This sociology survey course is designed to provide students with a basic understanding of how societies are formed and how they function. Sociology is a study of people in group relationships and integrates all the disciplines of social movement. This course addresses values, norms, culture, socialization, social stratification and social institutions. It may also include consideration of social problems such as crime, poverty, prejudice and discrimination, collective behavior and social movements.

## **SPANISH 1 A/B**

In Spanish I the student begins to understand, speak, read, and write Spanish. Conversational skills using the present tense and practical vocabulary are emphasized. Students also begin to study the culture of Spanish-speaking peoples.

## **SPANISH I A/B**

In Spanish I the student begins to understand, speak, read, and write Spanish. Conversational skills using the present tense and practical vocabulary are emphasized. Students also begin to study the culture of Spanish-speaking peoples.

## **SPANISH II A/B**

Spanish II builds on the first-level course. Students increase their vocabulary, continue to use and develop the present tense and infinitive verb constructions, and improve conversational, reading, and writing skills. Students continue to study the culture of Spanish-speaking peoples.

## **STATISTICS A/B**

The Statistics course is an excellent option for any student who has successfully completed Algebra II, regardless of the student's intended college major. This course is not a Calculus-based course. The purpose of Statistics is to introduce students to the major concepts and tools for collecting, analyzing, and drawing conclusions from data.

## **TRIGONOMETRY**

Trigonometry is designed for the students who will continue on to Pre-calculus or for the college-bound student. Trigonometric topics include applying properties of the unit circle, utilizing trigonometric identities to solve problems, and graphing trigonometric functions.

## **UNITED STATES HISTORY A/B**

This United States History course is a survey of U.S. history since Reconstruction. The course will examine and evaluate matters relating to the student's role as a citizen in an ever changing, multicultural world and focus on the social, political, economic, and military events which had a major impact on shaping the United States as it is today.

## **UNITED STATES HISTORY A/B (BOTH)**

This United States History course is a survey of U.S. history since Reconstruction. The course will examine and evaluate matters relating to the student's role as a citizen in an ever changing, multicultural world and focus on the social, political, economic, and military events which had a major impact on shaping the United States as it is today.

## **UNITED STATES HISTORY HONORS A/B**

This United States History course is a survey of U.S. history since Reconstruction. The course will examine and evaluate matters relating to the student's role as a citizen in an ever changing, multicultural world and focus on the social, political, economic, and military events which had a major impact on shaping the United States as it is today.

## **VOLUNTEERISM**

This course offers a unique educational experience which provides students with the opportunity to understand how their community works by developing an awareness of "volunteerism." Students must track their hours of volunteer service outside the regular school day and complete assignments about their volunteer work.

## **WEB DESIGN**

This course will focus on website planning, basic design, layout, and construction. Other topics include evaluation of websites, image editing, and animation. Students will learn basic HTML structure and formatting.

### **WORLD GEOGRAPHY**

This course is a study of people, places and environment from a physical and cultural perspective. Through a variety of classroom activities, students will gain an appreciation and understanding of the interdependent world in which they live. Students will analyze and evaluate the connection between their local and global communities. The course will emphasize the practical and responsible application of geography to life situations.

### **WORLD HISTORY A/B**

This course is a survey of world history and cultures with an emphasis on the Modern Era from Renaissance to the present. The focus of the course is the major ideas, people and events from the eastern and western hemispheres which have shaped our world today. Major themes include but are not limited to Global Exchange, Age of Discovery, Renaissance and Reformation, the Age of Revolution, and how they have impacted the Modern Era. Students will be given the opportunity to become involved in rigorous learning and writing requiring critical thinking activities, research, making inferences, generalizing and drawing conclusions.

### **WORLD HISTORY A/B (BOTH)**

This course is a survey of world history and cultures with an emphasis on the Modern Era from Renaissance to the present. The focus of the course is the major ideas, people and events from the eastern and western hemispheres which have shaped our world today. Major themes include but are not limited to Global Exchange, Age of Discovery, Renaissance and Reformation, the Age of Revolution, and how they have impacted the Modern Era. Students will be given the opportunity to become involved in rigorous learning and writing requiring critical thinking activities, research, making inferences, generalizing and drawing conclusions.

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