



# Missouri Course Access and Virtual School Program (MOCAP) At Home Academy-Mehlville School District Course Descriptions - With Instruction

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| Course Name                        | Course Description   |
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| <b>Kindergarten Full Time</b>      |  |
| Kindergarten Art                   | The purpose of providing art in Kindergarten is to develop an understanding and appreciation of the arts. Art has the ability to motivate, encourage and inspire learners at every ability and language level. Learning in the arts can be both enjoyable and beneficial. Educating the next generation of society who can experience, understand and enjoy the arts is an important result of the art education program. In Kindergarten, the student develops their creative abilities and explores different art media. The student is exposed to famous artworks from history and other cultures. Full day kindergarten has art for 60 minutes per week. Half-day kindergarten has art for 45 minutes. The student is taught by an art specialist. The five objectives outlined are in line with national visual art standards (VA) and state Fine Arts content standards (FA) and are specific to the state's GLEs. |
| Kindergarten English Language Arts | The literacy level of the Kindergarten student in reading, writing, speaking, and listening is called the "emergent" level by most language professionals. A print-rich, language-rich, developmentally-appropriate environment is provided for all Kindergartners. The student is given many opportunities to speak and listen as they share information and experiences with others. Reading instruction is a combination of many approaches. The children will be immersed in good literature. The student practices their letter and sound recognition skills and is introduced to sight words. The Kindergartner is encouraged to draw and write as another way to express their ideas.   |
| Kindergarten Math                  | Kindergarten mathematics is designed to provide the beginning learner with an understanding of numbers, quantities, and describing shapes in space using mathematical processes, measurement tools, and problem solving. The student will be studying numbers, 2D and 3D shapes, addition and subtraction, measurement, and position words   |
| Kindergarten Music                 | Kindergarten music introduces singing, playing instruments, basic music literacy, and early listening skills, while exploring cross curricular connections. This course addresses the historical and cultural significance of music and its role in our society.   |
| Kindergarten Physical Education    | The Kindergarten Physical Education Curriculum will provide the student with a variety of movement experiences and guided instruction. This will enable the student to demonstrate fundamental motor skills as they relate to low-organized games involving nonlocomotor/locomotor, eye-hand and eye-foot activities. The student will also receive instruction in social and safety skills through cooperative play and group activities.   |
| Kindergarten Science               | The Kindergarten student will be studying about forces and interactions (pushes and pulls), interdependent relationships in ecosystems (animals, plants and their environment), and weather and climate. In addition, the students will utilize the science and  |

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|                             | <p>engineering practices by asking questions and defining problems, developing and using models, and analyzing and interpreting data.</p> <p>The teacher will use a hands-on, minds-on approach to actively engage the students in constructing and revising their understanding of these concepts.</p> |
| Kindergarten Social Studies | The social studies program in Kindergarten provides a basis for understanding social studies terminology and resources. The student will be studying and communicating knowledge of citizenship, cultural traditions, the economy, and social studies tools.  |

## 1st Grade Full Time

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| 1st Grade Art                   | In First Grade, the student will develop their creative ability and explore different art media such as drawing, painting and collage, sculpture and printmaking. The student will be exposed to famous artwork from history and other cultures as well as learn skills in interpreting and discussing works of art.   |
| 1st Grade English Language Arts | The English Language Arts curriculum for First Grade is a balanced literacy approach that includes reading to, with, and by the student. It also includes writing for, with, and by the student. This is accomplished by fostering phonemic awareness, phonics, spelling, word solving using meaning, structure and visual cues, and sharing what is read and written through whole group, flexible group, and individual instruction in a print-rich environment. The needs of the student are determined by initial and on-going assessment, and then met by using a variety of instructional strategies including direct instruction, guided practice, individual practice, cooperative learning and hands-on activities. |
| 1st Grade Math                  | Grade 1 Mathematics is designed to provide a classroom environment where the beginning learner develops number sense in everyday life by applying mathematical processes, reasoning, and problem-solving strategies. This is an integrated program that provides instruction in mathematical concepts. The topics covered include: developing number sense up to 120, addition and subtraction within 20, geometric shapes, place value, measurement, and data. The student will move through concrete models to pictorial representation, to abstract representation of mathematical concepts with an emphasis on problem solving and reasoning.  |
| 1st Grade Music                 | First grade music emphasizes singing, playing instruments, developing music literacy and enhancing music listening skills, while exploring cross-curricular connections. This course addresses the historical and cultural significance of music and its role in our society.  |
| 1st Grade Physical Education    | The First Grade Physical Education Curriculum will provide the student with a variety of movement experiences and guided instruction. This will enable the student to demonstrate fundamental motor skills as they relate to low-organized games involving non-locomotor/locomotor, eye-hand and eye-foot activities. The student will be introduced to the various ways that exercise affects the body. The student will also receive instruction in social and safety skills through cooperative play and group activities.  |
| 1st Grade Science               | The First Grade student will be studying about space systems (patterns and cycles), structure, function, and information processing, as well as waves, light, and sound. In  |

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|                          | addition, the students will utilize the science and engineering practices by asking questions and defining problems, developing and using models, and analyzing and interpreting data. The teacher will use a hands-on, mindson approach to actively engage the students in constructing and revising their understanding of these concepts. |
| 1st Grade Social Studies | The First Grade student will gain an understanding of our school and community, both past and present. First Grade Social Studies develops an awareness of community in the larger context as a segue into learning how the past impacts the present.  |

## 2nd Grade Full Time

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| 2nd Grade Art                   | The purpose of providing art in Second Grade is to develop an understanding and appreciation of art. The arts have the ability to motivate, encourage and inspire learners at every ability and language level. Learning in the arts can be both enjoyable and beneficial. Educating the next generation of society who can experience, understand and enjoy the arts is an important result of the art education program.  |
| 2nd Grade English Language Arts | The English Language Arts Curriculum for second grade is developed around reading, writing, language, and speaking and listening. It encourages student development through the use of a print-rich environment, along with individual, flexible, and whole-group instruction. Initial and on-going assessment provides information to guide instructional practice. The goal is to provide a balanced literacy program that will enhance the growth of communication skills in each student.   |
| 2nd Grade Math                  | Grade 2 Mathematics is designed to provide a classroom environment where the beginning learner develops number sense in everyday life by applying mathematical processes, reasoning, and problem-solving strategies. The topics covered are counting in multiples, place value, developing fluency with addition and subtraction, measuring, and describing and comparing shapes. The student will move through concrete models to pictorial representation, to abstract representation of mathematical concepts with an emphasis on problem solving and reasoning. |
| 2nd Grade Music                 | Second grade music emphasizes singing, playing instruments, developing music literacy and emphasizing listening skills, while exploring cross-curricular connections. This course addresses the historical and cultural significance of music and its role in our society.  |
| 2nd Grade Physical Education    | The Second Grade Physical Education curriculum will provide the student with a variety of movement experiences and guided instruction. This will enable the student to demonstrate fundamental motor skills as they relate to low-organized games involving nonlocomotor/locomotor, eye-hand and eye-foot activities. Basic concepts of exercise physiology will be introduced. The student will also receive instruction in social/safety skills and physical fitness through cooperative play and group activities.   |
| 2nd Grade Science               | The Second Grade student will be studying about Earth's systems (processes that shape the Earth), interdependent relationships in ecosystems, and structures and properties of matter. In addition, the students will utilize the science and engineering practices by asking questions and defining problems, developing and using models, and analyzing and interpreting data. The teacher will use a hands-on, minds-on approach to actively engage the students in constructing and revising their understanding of these concepts.                             |

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| 2nd Grade Social Studies | The Second Grade student will gain an understanding of the people and cultures within our community today and long ago, how to read a variety of maps, knowledge of how to spend and save money, and how to be an informed and active citizen. Students will ask and answer compelling questions using evidence to support their answers. |
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### 3rd Grade Full Time

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| 3rd Grade Art                   | The purpose of providing art in Third Grade is to develop an understanding and appreciation of art. Art has the ability to motivate, encourage and inspire learners at every ability and language level. Learning in the arts can be both enjoyable and beneficial. Educating the next generation of society who can experience, understand and enjoy the arts is an important result of the art education program.  |
| 3rd Grade English Language Arts | The third grade English Language Arts curriculum includes instruction on reading, writing, language, and speaking and listening. Instruction in reading will provide the student with opportunities using phonics, fluency, vocabulary, reading skills, as well as strategies to comprehend, analyze and evaluate a variety of texts. For the strand of writing, the student will compose well-developed texts of various types by following a writing process and attending to audience, purpose, ideas, content, organization and sentence structure, word choice, and conventions. Instruction for the speaking and listening strand will facilitate the student in developing listening and speaking skills in order to acquire and disseminate information. |
| 3rd Grade Math                  | Grade 3 Mathematics is designed to provide a classroom environment where the beginning learner develops number sense in everyday life by applying mathematical processes, reasoning, and problem-solving strategies. The topics covered are multiplication and division within 100, unit fractions and relative size of common fractions, and geometry with a focus on area and describing 2-D shapes. The student will move through concrete models to pictorial representation, to abstract representation of mathematical concepts with an emphasis on problem solving and reasoning. The student will be taught using methods that encourage hands-on activities and performance tasks that will develop understanding and application.                      |
| 3rd Grade Music                 | The third grade music student expands their knowledge of singing and playing instruments and continues to develop music literacy and enhance listening skills. The third grade musician also explores cross-curricular connections. The historical and cultural significance of music is addressed through an awareness of the role of music in our society.   |
| 3rd Grade Physical Education    | The Third Grade Physical Education Curriculum will provide the student with a variety of movement experiences and guided instruction. This will enable the student to demonstrate fundamental motor skills as they relate to low-organized games involving non locomotor, eye-hand and eye-foot activities. The student will begin to understand basic anatomy and physiology as it relates to to exercise. Manipulative skills will be practiced. The student will also receive instruction in social and safety skills through cooperative play and group activities.  |
| 3rd Grade Science               | The Third Grade student will be studying about forces and interactions, inheritance and variation of traits, interdependent relationships in ecosystems, and weather and climate. In addition, the students will utilize the science and engineering practices by  |

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|                          | asking questions and defining problems, planning and carrying out investigations, and constructing explanations and designing solutions. The teacher will use a hands-on, minds-on approach to actively engage the students in constructing and revising their understanding of these concepts. |
| 3rd Grade Social Studies | The Third Grade student will investigate core social studies concepts, such as geography, economics and history with a focus on Missouri, both past and present. Students will learn about the diverse social and cultural groups of Missouri and their impact on American history.             |

#### 4th Grade Full Time

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| 4th Grade Art                   | The purpose of providing art in Fourth Grade is to develop an understanding and appreciation of art. Art has the ability to motivate, encourage and inspire learners at every ability and language level. Learning in the arts can be both enjoyable and beneficial. Educating the next generation of society who can experience, understand and enjoy the arts is an important result of the art education program.   |
| 4th Grade English Language Arts | The fourth grade English Language Arts curriculum includes instruction in reading, writing, language, and speaking and listening by implementing a balanced approach to instruction and assessment. In the area of reading, the student will use decoding, vocabulary and comprehension skills to read and comprehend a variety of texts. The student will use a variety of writing formats and have instruction in correct grammar, punctuation and spelling usage. The student will also learn to proofread for grammatical, punctuation and spelling errors within their own writing. The student will demonstrate listening and speaking skills in order to acquire and disseminate information.                                 |
| 4th Grade Math                  | Fourth Grade mathematics is designed to develop an understanding of numbers and provide the student with the skills and tools necessary to be active problem-solvers in everyday life. Topics covered include developing fluency with multi-digit multiplication, division, identifying like fractions, addition, subtraction, and multiplication of fractions, measurement, and classifying two dimensional shapes. The student will gain an understanding of these topics by performing hands-on activities. The focus will be on active learning practices using problem solving and application. The student will move through concrete models to pictorial representation, to abstract representation of mathematical concepts. |
| 4th Grade Music                 | The fourth grade music student expands their knowledge of singing and playing instruments and continues to develop music literacy and enhance listening skills. The fourth grade musician also explores cross-curricular connections. The historical and cultural significance of music is addressed through an awareness of the role of music in our society.   |
| 4th Grade Physical Education    | The Fourth Grade Physical Education Curriculum will provide the student with a variety of movement experiences. Guided instruction will enable the student to demonstrate motor skills, knowledge of the rules and basic offensive and defensive strategies for lead-up games. Basic concepts of nutrition will be introduced and students will further expand their knowledge of the effects of exercise on the body. Physical fitness test will be administered to measure each student's components of fitness. Manipulative skills   |

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|                          | will be further practiced. The student will also receive instruction in social/safety skills and physical fitness through aerobic/anaerobic activities and sport lead-up games.  |
| 4th Grade Science        | The Fourth Grade students will be studying about Earth's systems (processes that shape the Earth), energy, structure, function, information processing, and waves and information. In addition, the students will utilize the science and engineering practices by asking questions and defining problems, planning and carrying out investigations, and constructing explanations and designing solutions. The teacher will use a hands-on, minds-on approach to actively engage the students in constructing and revising their understanding of these concepts. |
| 4th Grade Social Studies | The Fourth Grade student will be introduced to American History from early explorers through the Westward Expansion. Students will pose compelling and supporting questions and use evidence to support their answers.   |

## 5th Grade Full Time

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| 5th Grade Art                   | The purpose of providing art in Fifth Grade is to develop an understanding and appreciation of art. Art has the ability to motivate, encourage and inspire learners at every ability and language level. Learning in the arts can be both enjoyable and beneficial. Educating the next generation of society who can experience, understand and enjoy the arts is an important result of the art education program.   |
| 5th Grade English Language Arts | The Fifth Grade English Language Arts curriculum includes instruction in reading, writing, language, and speaking and listening by implementing a balanced approach to instruction and assessment. In the area of reading, the student will use decoding, vocabulary and comprehension skills to read and comprehend a variety of texts. The student will use a variety of writing formats and have instruction in correct grammar, punctuation and spelling usage. They will also learn to proofread for grammatical, punctuation and spelling errors within their own writing. The student will demonstrate listening and speaking skills in order to acquire and disseminate information.  |
| 5th Grade Math                  | Fifth Grade mathematics is designed to develop an understanding of numbers and provide the student with the skills and tools necessary to be active problem-solvers in everyday life. Topics covered include developing fluency with addition and subtraction of fractions, developing understanding of multiplication and division of fractions, understanding decimals in place value, volume, measurement, expressions and patterns, and graphing. The student will gain an understanding of these topics by performing hands-on activities. The focus will be on active learning practices using problem solving and application. The student will move through concrete models to pictorial representation, to abstract representation of mathematical concepts. |
| 5th Grade Music                 | The fifth grade music student expands their knowledge of singing and playing instruments and continues to develop music literacy and enhance listening skills. The fifth grade musician also explores cross-curricular connections. The historical and cultural significance of music is addressed through an awareness of the role of music in our society.  |
| 5th Grade Physical Education    | The Fifth Grade Physical Education Curriculum will provide the student with a variety of activities that develop and enhance the components of physical fitness. The student will begin to interpret their own fitness test scores. More advanced anatomy, physiology   |



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|                          | and nutrition will be discussed. Lead-up games related to team sports and tournament play will be further introduced. This enables the student to demonstrate motor skills, manipulative skills, knowledge of the rules and game strategies for sport activities.   |
| 5th Grade Science        | The Fifth Grade student will be studying about Earth's systems, organisms and ecosystems, space systems, and structures and properties of matter. In addition, the students will utilize the science and engineering practices by asking questions and defining problems, planning and carrying out investigations, and constructing explanations and designing solutions. The teacher will use a hands-on, minds-on approach to actively engage the students in constructing and revising their understanding of these concepts. |
| 5th Grade Social Studies | The Fifth Grade student will gain an understanding of United States History from the Civil War through the Civil Rights Movement. Students will research and evaluate the changing positions and multiple points-of-view of the people, events, and causal relationships of the issues of these time periods.   |

## 6th Grade Full Time

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| 6th Grade English Language Arts | The student in 6th Grade Language Arts will develop writing, speaking, and reading skills. The student will write on a regular basis, with an emphasis on fluency, and will develop academic practices and strategies, such as collegial discussion and evaluating text. He or she will develop comprehension and fluent reading strategies with literary and non-fiction texts and will respond to literature and other texts in class discussion, peer groups, and through writing as well as informal presentations. |
| 6th Grade Health                | 6th Grade Health students will practice effective decision making, analyze cause and effect, and develop core health content knowledge. Students will be introduced to nutrition, the impact of nicotine products, the changes that occur during puberty, and the impact of bullying and social health. Students will discuss nicotine, bullying, suicide prevention, hygiene and body systems. Students will learn about accessing reliable health-enhancing resources in their school and community                   |
| 6th Grade Math                  | Math 6 is designed so that the student will become an active problem solver and connect mathematical processes and reasoning in everyday life. The student will gain an understanding of computation, geometry, and algebra through hands-on activities. The student will explore numeration, measurements, patterns, and variables using the inquiry method. The focus will be on active learning practices using problem-solving skills.  |
| 6th Grade Physical Education    | The sixth grade physical education program focuses on developing and refining movement patterns and skills to meet a variety of physical activities. Students will learn the basic rules, beginning strategies, and different types of sports and activities. They will identify the importance of physical fitness as a lifetime routine and develop habits of regular physical activity.  |
| 6th Grade Science               | The 6th grade life science course will build upon the student's science understanding from earlier grades in five main topics including structure, function, and information processing; growth, development, and reproduction of organisms; matter and energy in organisms and ecosystems; interdependent relationships in ecosystems; and natural selection and adaptations. The performance expectations in middle school blend core   |

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|                          | ideas with scientific and engineering practices and crosscutting concepts to support the student in developing usable knowledge across the science disciplines.   |
| 6th Grade Social Studies | This course is designed to expose the student to the geography, history, cultures, and regions of the world. The student will begin their study with the Five Themes of Geography and will apply those themes to a variety of world cultures. The student will explore the relationships among economics, governments, technological achievements, social structures and religions. |
| Introduction to Art      | The student in Introduction to Art will explore painting, sculpting, printmaking, drawing, design, mixed-media, and ceramics (clay). This course will provide the opportunity to apply the elements and principles of design as well as strengthen skills in critiquing, interpreting, and discussing works of art.   |
| Introduction to Music    | Introduction to Music is a semester elective open to any middle school student who is interested in making music. This course is appropriate for all levels of musicianship and explores vocal and instrumental music.  |

## 7th Grade Full Time

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| 7th Grade English Language Arts | The student in 7th Grade Language Arts will develop writing, speaking, and reading skills. The student will write on a regular basis, with an emphasis on fluency and analysis, and will develop strong academic practices and strategies, such as collegial discussion and evaluating text. The student will develop comprehension and reading strategies with both literary and non-fiction texts. The student will respond to literature and other texts in class discussion, peer groups, and through writing as well as informal and formal presentations.                                 |
| 7th Grade Health                | 7th Grade Health students will practice effective decision making, analyze cause and effect, and develop core health content knowledge. Students will focus on social and emotional health, as well as developing a deeper understanding of nutrition, the risks of nicotine products, and peer pressure. Students will discuss suicide prevention, the effects of personal decisions on their body systems, addiction, and media literacy. They will participate in guided research on various health related topics.  |
| 7th Grade Math                  | This course is designed to challenge the student while developing algebraic concepts and relating them to other content areas and everyday experiences. The student will be engaged in mathematical activities to learn number operations, proportional reasoning, geometry, probability, and statistics, with a focus on developing algebraic thinking in clear algebraic language. Algebra concepts are developed in-depth and related to other mathematical strands following the Missouri Learning Standards.   |
| 7th Grade Math Advanced         | This course continues the developmental approach to Algebra, begun in Algebra Preparation 7th Grade, showing the student how algebraic concepts relate to other content areas and the students' everyday experiences. This is a program in which the student learns to state everyday problems in clear algebraic language and to solve them using algebraic procedures. The student learns basic algebraic notation, terminology, and concepts that lead to solving linear equations and quadratic equations. The student will learn to generalize, think spatially, and reason statistically. |

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| 7th Grade Physical Education | Students in 7th Grade Physical Education will continue to develop the basic skills introduced in 6th Grade P.E. through active engagement in physical fitness. Students will participate in teams emphasizing collaboration and communication.  |
| 7th Grade Science            | The earth science course develops understanding of a wide range of topics that build from elementary school into more advanced content. There are six topics addressed and they are space systems, history of Earth, Earth's interior systems, Earth's surface systems, weather and climate, and human impacts. There is a great emphasis on systems and socially relevant concepts such as resources, hazards, and environmental impacts in this course.                               |
| 7th Grade Social Studies     | The World Civilizations curriculum will concentrate on the history of various civilizations. The study of these civilizations will be covered through the examination of the history, government, geography, economics, and social/cultural aspects of each area. Tools of inquiry (e.g. surveys, statistics, maps and documents), research skills and methods will be emphasized. Connections to the present world and relationships to current events will be discussed and explored. |
| Introduction to Art          | The student in Introduction to Art will explore painting, sculpting, printmaking, drawing, design, mixed-media, and ceramics (clay). This course will provide the opportunity to apply the elements and principles of design as well as strengthen skills in critiquing, interpreting, and discussing works of art.   |
| Introduction to Music        | Introduction to Music is a semester elective open to any middle school student who is interested in making music. This course is appropriate for all levels of musicianship and explores vocal and instrumental music.  |

## 8th Grade Full Time

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| 8th Grade English Language Arts | The student in 8th Grade Language Arts will develop writing, speaking, and reading skills to prepare them for success in high school. The student will write on a regular basis, with an emphasis on responding to peers and to texts, and they will develop strong academic practices and strategies, including analyzing texts, citing sources, and editing their work, as well as discussion, presentation, and collaboration. The student will develop strong analytical and reading strategies with both literary and non-fiction texts. The student will respond to literature and other texts in class discussion, peer groups, and through writing as well as informal and formal presentations. |
| 8th Grade Health                | 8th Grade Health students will practice effective decision making, analyze cause and effect, and develop core health content knowledge. In 8th grade, students will focus on sexual health, emotional health, and the consequences of high risk behaviors. Students will discuss topics such as alcohol and drug use, sexually transmitted diseases, pregnancy, and suicide risks and prevention. Students will locate and utilize resources through research to learn the most current information available on these topics. The course discussions will provide students with the knowledge and skills to create and maintain healthy relationships.  |
| 8th Grade Math                  | This course continues the developmental approach to Algebra, begun in Math 7, showing the student how algebraic concepts relate to other content areas and the student's everyday experiences. This is a program in which the student learns to state everyday problems in clear algebraic language and to solve them using algebraic  |

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|                              | procedures. The student learns basic algebraic notation, terminology, and concepts that lead to solving linear equations and quadratic equations. The student will learn to generalize, think spatially, and reason statistically.  |
| Algebra 1                    | This course will develop logical mathematical thought through the use of variables, algebraic properties, and their connection to real world situations. The course will primarily explore solving and graphing equations and inequalities of functions. Algebra skills will be developed to support these investigations. Patterns, probabilities, number sense, and relationships to real world situations will also be incorporated throughout the course. The student should have mastered integer operations, rational number operations, order of operations, and solving one-step and two-step equations on one variable. Calculators will be used when appropriate. |
| 8th Grade Physical Education | Students in 8th Grade Physical Education will actively engage in self-enhancing physical fitness through sport and lifetime fitness skills with the goal of developing strong, permanent personal health habits. The course will provide students with advanced skill instruction related to individual, dual, and team sport activities.   |
| 8th Grade Science            | The middle school physical science course will continue to develop understanding of four ideas in the physical science including matter, chemical reactions, forces and interactions, and waves with the transfer and conservation of energy embedded in each of the four areas. The performance expectations in physical science blend the core ideas with scientific and engineering practices and crosscutting concepts to support students in developing usable knowledge to explain real world phenomena in the physical, biological, and earth and space sciences.  |
| 8th Grade Social Studies     | The eighth grade curriculum involves the study of United States history from the Revolutionary War through Post-Civil War/Reconstruction. Also included is the study of geography, civics/government and economics. The student will learn their rights and responsibilities as citizens of the United States as developed in the U.S. Constitution and how others have used them to shape the development of our country. Learning will take place through a variety of instructional techniques, technology and multiintelligence approaches.   |
| Introduction to Art          | The student in Introduction to Art will explore painting, sculpting, printmaking, drawing, design, mixed-media, and ceramics (clay). This course will provide the opportunity to apply the elements and principles of design as well as strengthen skills in critiquing, interpreting, and discussing works of art.   |
| Introduction to Music        | Introduction to Music is a semester elective open to any middle school student who is interested in making music. This course is appropriate for all levels of musicianship and explores vocal and instrumental music.  |