

| <b>Middle School Courses</b> | <b>Course of Study Description</b>  |
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| Math Grade 6                 | In this course, students will use ratio concepts to solve problems, extend understanding of numerical operations, use reason to solve equations & inequalities, problem solve using area & volume, and develop understanding of statistical variability.  |
| Math Grade 7                 | This course focuses on ratio & proportional reasoning, extending understandings of numerical operations, solving problems using numerical & algebraic equations, angle measure, area & volume, and statistics.  |
| Math Grade 8                 | This course is designed to prepare students for High School mathematics courses, such as Algebra and Geometry. Content will include a focus on rational & irrational numbers, working with radical and integer exponents, comparing relationships between functions, Geometry concepts and investigating patterns in data.  |
| Pre-Algebra                  | The course is designed to allow students to make the transition to Algebra. It emphasizes a wide range of topics necessary for success in Algebra, including functions, equations, inequalities, graphing, and problem solving.   |
| Algebra                      | This course is designed to cover the major topics of Algebra, including Quadratics. Emphasis is placed upon basic manipulation of variables, solving equations and general competency in solving verbal problems. Students will also learn to interpret functions.  |
| Geometry                     | This course is designed for students who have successfully completed Algebra I. Students will be acquainted with mathematical proofs, right triangle trigonometry, modeling geometric concepts, as well as relationships between points, lines, planes and geometric shapes.  |
| English Grade 6              | This course uses authentic informational and literary text to achieve the New Jersey Standards for Student Learning. Students build on literacy skills to evaluate reading and listen carefully in order to communicate through writing and speaking. The importance of building reading stamina, response to reading and analysis of complex grade-level text is emphasized.   |
| English Grade 7              | This course uses authentic informational and literary text to achieve the New Jersey Standards for Student Learning. Students continue to build on literacy skills from 6th Grade to synthesize reading and listen carefully in order to communicate effectively through writing and speaking. The importance of continuing to build reading stamina, response to reading and analysis of complex grade-level text is emphasized. |
| English Grade 8              | This course uses authentic informational and literary text to achieve the New Jersey Standards for Student Learning. Students continue to build on literacy skills from 7th Grade to synthesize reading and listen carefully in order to communicate effectively through writing and speaking. The importance of continuing to build reading stamina,   |

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|                        | response to reading and analysis of complex grade-level text is emphasized.  |
| Science Grade 6        | Prerequisite: Completion of 5 <sup>th</sup> Grade<br>This is a science course that deals with the New Jersey Student Learning Standards in Science in Earth Science, Life Science and Physical Science. Topics include: earth's structure, cells, heredity and astronomy & space science. Laboratory and STEM activities may be used to support curriculum instruction and learning.   |
| Science Grade 7        | Prerequisite: Completion of 6 <sup>th</sup> Grade<br>This is a science course that deals with the New Jersey Student Learning Standards in Science in Earth Science and Life Science. Topics include: weather & climate, ecology and the environment and the diversity of life. Laboratory and STEM activities may be used to support curriculum instruction and learning.   |
| Science Grade 8        | Prerequisite: Completion of 7 <sup>th</sup> Grade<br>This is a science course that deals with the New Jersey Student Learning Standards in Science in Physical Science (Chemistry and Physics). Topics include: introduction to chemistry, forces, energy, sound and light. Laboratory and STEM activities may be used to support curriculum instruction and learning.   |
| Advanced Science       | Grade 7: Prerequisite: Completion of 6 <sup>th</sup> Grade. Must qualify for the Advanced Math course.<br>This is a science course that deals with the New Jersey Student Learning Standards in Science in Earth Science and Life Science. Topics include: weather & climate, ecology and the environment and the diversity of life. Laboratory and STEM activities may be used to support curriculum instruction and learning.<br><br>Grade 8: Prerequisite: Completion of 7 <sup>th</sup> Grade<br>This is a science course that deals with the New Jersey Student Learning Standards in Science in Physical Science (Chemistry and Physics). Topics include: introduction to chemistry, forces, energy, sound and light. Laboratory and STEM activities may be used to support curriculum instruction and learning. |
| Social Studies Grade 6 | This course is designed for students to explore the history of Ancient Civilizations. The course begins with the origins of early people and then look at several different civilizations including Egypt, India, Greece, Rome and the Byzantine Empire. The curriculum is focused on the cultural components of society, religion, government and economics. Students are also asked to start to analyze primary sources.   |
| Social Studies Grade 7 | This course is designed for students to explore early American history. The course begins with exploration and continues up to and including Reconstruction. Students are also required to complete Document   |

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|                                    | Based Questions. Topics include: American Revolution, Civics, Expanding and Governing a new nation, Civil War and slavery.  |
| Social Studies Grade 8             | This course is designed for students to explore later American history starting with growth of industry in 1870 and continues up to and including Post war United States in 1945-1970's. Students are also required to complete Document Based Questions. Topics include: emergence of modern America, Progressive Movement WWI, WWII, Depression, Civil Rights and Cold War.   |
| Spanish Grade 6                    | Students in this course learn a cross-curricular science unit on the Planets in the Solar System in Spanish. Students learn to describe distinguishing features of the planets in Spanish.  |
| Hispanohablantes Grade 6           | This course is designed for Spanish-speakers. Students develop their literacy skills in Spanish while studying a healthy eating unit.   |
| Fundamentals of French/Spanish 7/8 | This introductory course teaches students to begin to communicate in French/Spanish. Students learn a cross curricular science unit on the life cycle of a butterfly in French/Spanish. They also study the global issue of urban parks in French/Spanish.  |
| Spanish 1/French 1 Grades 7/8      | Students will study French/Spanish through 4 thematic units: Welcome Back to School; My Life After School; My House & My World and All Around the Town. The first two units will be studied during 7th grade and the second two units will be studied in 8th grade. Students will develop their ability to understand spoken and written Spanish when viewing videos and listening to the spoken language as well as through reading the language. They will develop interpersonal skills by writing and speaking with their peers and with the teacher. Finally, they will present, orally and/or in writing, information, concepts and ideas to their classmates and teacher. |
| Hispanohablantes 7/8               | This course is designed for Spanish-speakers. Students develop their literacy skills in Spanish by reading many books in Spanish. Students focus on main idea and inferencing skills. Students learn to support opinions with details from the Spanish texts.   |
| Media Studies                      |   |
| STEM                               | Science Technology, Engineering, and Math (STEM) is a course provided to all 6th, 7th, and 8th grade students. The course is designed to expose students to the engineering design principles using the engineering design loop. The students are exposed to several units of study including innovation, simple machines, and design principles. Through coursework and activities the students complete several projects for these units of study including 3D printing and architecture, robotics, light source, and more.   |
| Art                                | Students will understand and appreciate art history, culture and heritage by creating art projects that emphasize the elements (line, form, color, value, texture) and principles of art (balance, variety, harmony, emphasis). A variety of media and techniques create an active learning experience.   |

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| General Music      | Students will learn how to perform, improvise, compose, read and notate music, analyze music, and also understand music's relationships between the arts and history.  |
| Health Grade 6     | This course is designed to teach students to understand their overall health, violence prevention, nutrition, body image and safety.   |
| Health Grade 7     | This course is designed to teach students about their mental and emotional health, healthy relationships in their teen years, promoting social health and conflict resolution.   |
| Health Grade 8     | This course is designed to teach students about their male and female reproductive systems, growth & development, drugs/ tobacco/alcohol, and effective communication.   |
| Physical Education | This program includes, but not limited to, units in team sports, physical conditioning, track and field, softball, lacrosse, basketball, hockey, racquet sports, football, soccer, volleyball, and low level Project Adventure activities. |
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