MS SCIENCE SYLLABUS:

PROGRAM SUMMARYs

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| * Eighth grade science focuses on learning the basics of Chemistry and Physics. This course is designed to engage students through a variety of learning techniques that emphasize critical thinking, mathematical, writing and reading skills. Students will explore many different topics associated with Physical Science while learning the fundamental principles, theories, laws, and facts that govern these particular areas of science. * Seventh grade science focuses on learning the basics of Life around them: Ecosystems and Organization of Organisms. This course is designed to engage students through a variety of learning techniques that emphasize critical thinking, mathematical, writing and reading skills. Students will explore many different topics associated with Life Science while learning the fundamental principles, theories, laws, and facts that govern these particular areas of science. * Sixth grade science focuses on learning the basics of the process that shape the Earth around them. This course is designed to engage students through a variety of learning techniques that emphasize critical thinking, mathematical, writing and reading skills. Students will explore many different topics associated with Earth Science while learning the fundamental principles, theories, laws, and facts that govern these particular areas of science. |

COURSE DESCRIPTIONS

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| 8th. ➢Matter – properties, changes, classification, and The Periodic Table of Elements  ➢ Energy – classification, transformations, and flow of energy  ➢ Forces and Motion – gravity, mass, inertia, friction, and Newton’s Laws of Motion.  ➢ Electricity and Magnetism – properties, flow, connection between electricity and magnetism ➢ Waves – classification, properties, and behavior  7th. ➢ Ecosystems- Matter and energy, Biodiversity, Cellular Respiration and Photosynthesis  ➢ Structure and function- Cells, Organization, Information Processing  ➢ Reproduction of Organisms-Inheritance, Reproduction: Animals and Plants  ➢ Change over time- How Traits Change, Natural Selection, Fossil Evolution  6th. ➢ Exploring Space: Sun-Earth-Moon systems, Exploring the Universe,  ➢ Water and Climate: The Water Cycle, Weather and Climate,  ➢ Impacts on the Environment: Human Impact on the Environment, Earth and Human Activity  ➢ The Changing Earth: Geologic Time, Dynamic Earth, Distribution of Earth’s Resources, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Natural Hazards |

MATERIALS REQUIRED FOR CLASS

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| Pencil  Red pen  Planner  Composition Notebook  Binder with five tabs  Computer: needs to be charged for each class  Science Book: McGraw-Hill Inspire Science. Each unit has its own book, and is online.- These will be handed out to the students when the unit starts. |

GRADING

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| Students will be graded on:  Quiz, Test  Homework, Classwork  Bellringers,  6 points participation/ per day |

CLASSROOM EXPECTATIONS

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| 1. No talking when the teacher is talking. 2. Raise your hand. 3. When another student asks a question, listen, it may be something you need to know. 4. Do your work. 5. Be prepared for class- all materials. 6. If you miss a day, it is your responsibility to get your work and notes for what you missed. |