

Physical Science Syllabus 2014 - 2015

Teacher's Name:
Teacher's Email:
Phone: (846) 488-1373

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|----------------------------|---|
| General Information | <p>Class Meeting Times: 11:30AM-12:45PM Classroom (Classroom): Room 208 Teacher's Office Hours: 8:30-9:00, 1:25-2:15, 3:20-4:20 Course Length: 1 year</p> |
| Course description | <p>Physical Science is a hands-on, discovery-based and comprehensive year-long course introducing students to the physical world around us. The first semester is devoted to the study of Chemistry and the second semester for Physics. This course is designed for students to understand key concepts, develop 21st century skills and connect with Mathematics, Technology and Engineering. Fundamental skills in Chemistry and Physics such as measuring, data collection and manipulation, observing, and application of the scientific method will be practiced throughout the course. Students will explore the how and why of general science with the emphasis that science is a process, not just learned facts.</p> |
| Course pre-requisites | <p>Physical Science is an introductory science course with no pre-requisites. It is appropriate for 8th and 9th grade students.</p> |
| Course learning objectives | <p>In this course, we will cover the "Physical Science" learning objectives defined in the Minnesota Academic Standards in Science (2009). A full copy of these objectives is available at: http://education.mn.gov/MEDOK/.</p> <p>Specifically, by the end of the course, students will be able to:</p> <ul style="list-style-type: none"> Communicate effectively in both written and oral forms. Students will keep a homework and lab binder/notebook and will write a short essay after viewing film about science or physical science. Students will keep a class journal. Apply applications of the scientific method to information gathered by the scientific community. Students will use the scientific method during laboratory activities. Explore the physical and chemical properties of matter, classification of matter and phase changes. Relate the properties of an element to the structure of its atoms, including radioactive isotopes, by creating atom models. Describe key experiments in the historical development of the atomic model by writing and drawing a flip-book. Calculate current, voltage, and resistance, and describe energy transfers, in simple electric circuits by performing data analysis on experimental results. Describe a chemical reaction using words, equations, and pictures. Explore and classify the different types of chemical reactions, identify the factors that affect reactions rates, distinguish between exothermic and endothermic reactions, balance chemical equations, and relate the law of conservation of matter and energy to chemical reactions; identify common chemical reactions. Predict an object's motion based on its mass and the forces acting upon it by drawing vector diagrams. Compare and contrast fusion and fission in terms of reactants, products, and the conversion of matter into energy by creating a flow diagram. Evaluate the advantages and disadvantages of generating electricity using various sources of energy by presenting the benefits and harms of each type. Apply the law of conservation of mass by justifying experimental results and balancing chemical equations. Compare and contrast technologies in terms of energy efficiency and material resources as by analyzing electronic packaging data. |

Physical Science Syllabus 5009

RJ Shavelson



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