

Physical Science Syllabus 2014 - 2015

Teacher's Name:
Teacher's Email:
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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 (2008). A full copy of these objectives is available at: http://edweb.mn.gov/MSOE/.</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 by analyzing electronic packaging data.

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Table of Contents Physical Science Syllabus 5009

1. Understanding the eBook Physical Science Syllabus 5009
 - The Rise of Digital Reading Physical Science Syllabus 5009
 - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science Syllabus 5009
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Physical Science Syllabus 5009
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Science Syllabus 5009
 - Personalized Recommendations
 - Physical Science Syllabus 5009 User Reviews and Ratings
 - Physical Science Syllabus 5009 and Bestseller Lists
5. Accessing Physical Science Syllabus 5009 Free and Paid eBooks

- Physical Science Syllabus 5009 Public Domain eBooks
- Physical Science Syllabus 5009 eBook Subscription Services
- Physical Science Syllabus 5009 Budget-Friendly Options
- 6. Navigating Physical Science Syllabus 5009 eBook Formats
 - ePub, PDF, MOBI, and More
 - Physical Science Syllabus 5009 Compatibility with Devices
 - Physical Science Syllabus 5009 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Physical Science Syllabus 5009
 - Highlighting and Note-Taking Physical Science Syllabus 5009
 - Interactive Elements Physical Science Syllabus 5009
- 8. Staying Engaged with Physical Science Syllabus 5009
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physical Science Syllabus 5009
- 9. Balancing eBooks and Physical Books Physical Science Syllabus 5009
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physical Science Syllabus 5009
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Physical Science Syllabus 5009
 - Setting Reading Goals Physical Science Syllabus 5009
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Physical Science Syllabus 5009
 - Fact-Checking eBook Content of Physical Science Syllabus 5009
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development

- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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