Physical Science Syllabus
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**Course Introduction and Sequence—What we’re going to learn and when:**

Welcome to Physical Science! We are about to embark on a journey to uncover the secrets of the world around us through observation, experimentation, and readings from the greatest scientists of all time. The Course will be divided into units ranging from Forces and Motion to Energy and Energy Transfer.

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|   **Forces & Motion** \* Motion in terms of Speed, Velocity, Acceleration  and Momentum  \*Relationship between Forces, Motion & Gravity \*Frictional Forces and motion.   **Matter: Properties & Change** \*Types, Properties and Structure of Matter \*Atomic Structure, Periodic Table of Elements \*Chemical Bonding and Chemical Interactions \*The Role of the Nucleus in Radiation and Radioactivity |  **Energy: Conservation & Transfer** \*Types of Energy, Conservation of Energy and Energy  Transfer \*Thermal Energy and it Transfer \*Work, Power and Simple Machines \*The Nature of Waves \*Mechanical, Electromagnetic and Surface Waves \*Wave Interactions: Reflection, Refraction,  Diffraction and Interference \*Electricity and Magnetism and Their Relationship \*Magnetism and its Practical Applications |

# **Attendance:**

 Attendance to classes is essential to student learning. Late work when absent will be taken for full credit **within one week** of the student’s arrival back to school. Tardiness is not accepted. Students are required to be in their seats ready to work at the time of the late bell. The first tardy will result in a referral and parent contact. Additional tardies will result in further consequence.

# **Grading:**

* **Major Quizzes, Tests, Projects, Lab reports-70%**
	+ Format will consist of open-ended “essay-style” questions and multiple choice
	+ Major projects will be assigned for each unit.
	+ Certain smaller class projects will be given for “quiz grades”.
	+ Labs (In order to participate students MUST return signed safety contract)
* **Warm-ups, Class Work and Homework- 30%**
	+ Homework and class work will be checked for content and/or completion and grades will be kept on a log that will be turned in regularly. Should a student lose their log they must be able to show each assignment individually in order to receive credit for those assignments.

**Student Progress Reports:**

 Official Progress reports will be sent home every 4 ½ weeks for parents to look over and sign. If at any time between reports parent would like to check in with the progress of their student, they may e-mail the teacher. Keeping yourself updated with your grade is very important, as failure notices will only be sent out at the **end** of the quarter.

**Textbooks:**

 Students will be using a Physical Science classroom set for reference at school. They will also have access to and online text book both at school and at home.

# **Class Expectations:**

 In order to be successful in this class, you will need to behave as the mature young adult that you are becoming. The expectations for the class are that students will behave in a manner that helps promote learning among the entire class. Students are expected to distinguish and respect the difference between group learning times and individual learning times. Students are expected to sit quietly and attentively during teacher instruction. Restroom passes will be permitted to students during individual practice time. Excessive restroom breaks will not be tolerated, and students with medical/health/ other issues must have a note from a doctor, school nurse, or counselor. **Disrespect will not be tolerated**, and will result in a parent phone call and/or office referral/removal depending on the severity and frequency. Examples of student disrespect are, but are not limited to, arguing/back-talking, failure to comply with requests, bullying, and inappropriate language. **Cell phones and other electronic devices are prohibited and will be confiscated if seen in class.** Students have agreed by signature to abide by a specific code of conduct in my classroom. This document can be found under the Class Materials tab on my website.

**Supplies needed:**

* A three ring binder (at least 1½inch thick).
* Blank loose-leaf (not ripped out), college-ruled notebook paper
* 6-Tab Dividers
* ***Black or Blue pen*** or sharpened pencil (Assignments in other colors can be difficult to read)
* A positive attitude towards learning and respect for the rules of our class and Independence

\*If you are unable to get the required supplies, please see me privately.\*

# **Organizing for Success—How to keep an organized class binder:**

Your binder will contain all of the work that you do in this class (and *ONLY* this class) over the course of the year. It will be set up into seven basic sections:

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| --- | --- |
| 1. *General Rules / Information / Syllabus*
2. *Warm-ups and Essential Questions*
3. *Notes*
 | 1. *Classwork*
2. *Homework*
3. *Quizzes*
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Tests and Projects will be kept in your portfolio. It is *EXTREMELY* important that you keep an orderly binder for this class, as it will help your grade and will teach you invaluable organizational skills.

# **Tutoring:** Students are invited to tutor after school from 2:25-3:30. Students must provide their own transportation after tutoring. The location is Room 241, Wednesday and Friday Or By Appointment.

**Parent Signature \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_**