

Physics

Course Description

This course is an analytical and conceptual treatment of physical phenomenon. The topics studied will include the study of motion, forces on objects, energy, heat, sound and light waves, electricity and magnetism. This course will use real world examples and basic mathematical strategies to illustrate physics concepts and solve physics problems. At the honors level, the course covers these topics in greater depth and with more emphasis on mathematical reasoning.

Overarching Essential Question

- How do scientists apply mathematical reasoning to explain physical phenomena?
- How can we measure and interpret data to make predictions about the world?

Grading

Quarterly grades will be based on:

- | | |
|---------------------------|------|
| • Tests/Quizzes | 60 % |
| • Quizzes | 20 |
| • Projects and labs | 20 |
| • Homework and class work | 10 |

Materials

Each student will receive access to class-specific online textbook resources. Hard copies of the textbook are available for year-long use by request. The textbook may stay at home, in a safe place, until the end of the school year.

Please bring these items to class every day:

- 3-ring binder with tabs
- Lined paper for notes
- Composition notebook for labs
- Pencils
- Calculator (preferably TI calculator)

Textbook

Pearson Physics (2015)

Additional open access electronic

Units	Quarter
One-Dimensional Motion	1
Two-dimensional Motion	1
Forces and the Laws of Motion	1/2
Momentum and Conservation Laws	2
Mechanical Energy	3
Oscillations and Simple Harmonic Motion	3
Waves	4
Electricity	4

* Textbook: Physics, Pearson, 2015

Student Name (Print):

I have read the course syllabus for my chemistry class and I understand what is expected of me this year. I will put effort into all of my work, come to class with a positive attitude and take responsibility for my successful completion of this course.

Student Signature: _____

Date: _____

Parent/Guardian Name:

Relation to Student:

Contact Information

Home Phone:

Cell Phone:

Email Address:

Preferred Method of Contact:

I have reviewed the syllabus for Mrs. Martin's chemistry class and I understand what is expected of the student. I will work with the teacher and the student to promote the success of the student in this class.

Parent/Guardian Signature: _____

Date: _____