

Physical Science 2--Physics Focus

Course Syllabus

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[OneNote](#)

Design

This physical science course is designed to provide a base understanding of the components of physics. The course will focus on how matter moves, how it is made to move, and the energies involved. Key concepts include: motion, forces, momentum, energy, Newton's Laws, waves, electricity/magnetism, and light. Inquiry-based labs and hands-on engineering are integrated in the course.

Content

Topics include but are not limited to the following: designing experiments, measurement systems, states of matter, properties of matter, periodic table, classification of matter. Specific standards include:

- HS-PS2 Motion and Stability: Forces and Interactions (HS-PS2-1, HS-PS2-2, HS-PS2-3, HS-PS2-4, HS-PS2-5)
- HS-PS3 Energy (HS-PS3-1, HS-PS3-2, HS-PS3-3, HS-PS3-5)
- HS-PS-4 Waves and their Applications in Technologies for Information Transfer (HS-PS4-1, HS-PS4-2, HS-PS4-3, HS-PS4-4, HS-PS4-5)
- HS-ETS Engineering Design (HS-ETS1-1, HS-ETS1-2, HS-ETS1-3, HS-ETS1-4).

Work Expectations

It is expected that all work will be completed in class. Work that is not completed in the time allotted will need to be done outside of the classroom. There will be optional practice worksheets as the need arises for students to complete on their own time, should they choose to do so. OneNote will be used extensively for this course. If you are unfamiliar with OneNote, please seek help immediately.

Any missed live/wet labs will need to be made up on a student's own time and will need to be coordinated with the instructor prior to the desired time. Optional times for live/wet lab make-up include before school, lunch, or after school.

Behavioral Expectations

- No food allowed in the classroom. Only water in a clear container will be accepted in the front of the classroom (nothing allowed in the lab area)
- Respect everyone in the classroom (teachers, students, guests, etc...)
- Respect the materials in the room
- Stop talking when the instructor is speaking. Follow directions once they are given
- Do not use cell phones for personal communication during class time

- BE SAFE

Assessments

Assessments will be given in a variety of ways but will be heavily performance-based. Lab reports, projects, and models will be common-place assessments.

All student work will be weighted in the following manner:

- In class work: 10%
- Labs: 40%
- Projects: 35%
- Final: 15%

Grading

Traditional grading will be used in this class. Points will be assigned per project, assignment, lab, quiz, etc. and will be entered into Infinite Campus upon grading. Please check Infinite Campus for your most current grade.

90-100% A

80-89.9% B

70-79.9% C

60-69.9% D

<60% F