

Physical Science II Syllabus

Physical Science 2 will emphasize forces, motion, energy, work, power, electricity, and magnetism. The emphasis will be on the close relationship between these areas and how they are important to the individual student and society. Critical thinking and lab skills will be an additional focus of the class.

Grading: Points shall be awarded for assignments, labs, quizzes, and tests. Points will be awarded and collected cumulatively through the year. Categories will be weighted as follows:

Tests: 40%

Labs: 30%

Assignments: 15%

Quizzes: 15%

Textbook: Glencoe Physical Science

Instructional Resources: Canvas, StemScopes, and other resources as necessary.

Course Essential Questions:

How can motion be described and predicted?

How do forces change the motion of an object?

What is the relationship between mass, weight, and gravitation?

How is object's momentum related to its mass and velocity?

How is energy within a closed system transferred between objects and converted into different forms?

What is the relationship between electricity and magnetism?

Essential Learning Intentions:

Students will be able to describe how inertia affects the motion of an object.

Students will be able to describe how force, mass, and acceleration are related.

Students will be able to identify action/reaction pairs.

Students will be able to describe and predict how energy is transformed within a system.

Students will be able to describe what electricity is.

Students will be able to perform calculations using Ohm's Law.

Students will be able to describe how electricity and magnetism are related.