

AP Physics 1

An algebra-based, introductory college-level physics course.

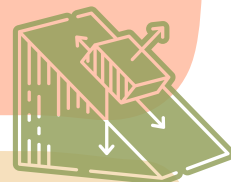


Overview

- **Classical Mechanics:** conceptual and quantitative principles that govern the physical world, approximately equivalent to a first-semester introductory college course in algebra-based physics
- UC a-g approved course
- Aligned to CollegeBoard's **AP Physics 1** course description

Units of Study

1. Kinematics
2. Dynamics
3. Work, Energy, Power
4. Linear Momentum
5. Torque & Rotational Dynamics
6. Energy & Momentum of Rotating Systems
7. Oscillations
8. Fluids *



Who would enjoy this class?

Students who want to ...

understand how the physical world works
apply theory to real-life phenomena

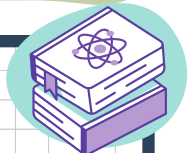
Students who enjoy ...

critical thinking & problem solving
mathematical and quantitative reasoning
hands-on laboratory investigations

Skills & Science Practices

Mathematics Routines & Problem Solving
Designing Investigations
Data Collection, Analysis, & Graphing
Evidence-Driven Argumentation

Workload



Reading assigned per class: approx. 30 min
Practice assigned per class: approx. 45 min

Requirements

AP Physics 1 is an elective science course offered to rising juniors and seniors. The following are required to enroll:

- Teacher recommendation
- C or better in current science class
- Math grade *before* enrolling in AP Physics
 - A in Math 3, or
 - C or better in AP Precalc or Math 4

Grading



Homework ... practice is important to learning physics

Unit Quizzes ... so you have feedback mid-unit

Laboratories & Classwork ... collaborative, hands-on applications of physics

Unit Exams ... end-of-unit summative assessments

* new for 2024-2025 school year; added to AP Physics 1 course and exam description by CollegeBoard