



# AP PHYSICS 2

## Description

AP Physics 1 and AP Physics 2 are the equivalent of the first and second semesters of an introductory, algebra-based college course in physics. Each will be taught as a yearlong course, providing students more time to cover the material and gain a deeper understanding through student-centered, inquiry-based instruction.

AP Physics 2 explores topics such as fluid statics and dynamics; thermodynamics with kinetic theory; PV diagrams and probability; electrostatics; electrical circuits with capacitors; magnetic fields; electromagnetism; physical and geometric optics; and quantum, atomic, and nuclear physics.

## Special requirements

Pre-requisites: Honors Physics or AP Physics 1 and Pre-Calculus or concurrently taking Per-Calculus or an equivalent course.

## Student costs/Materials to be supplied by students

Graphing Calculator

## Other information

The ability to develop and use physics knowledge by applying it to the practice of scientific inquiry and reasoning is at the heart of this new physics course. Class time will focus on the principles of scientific inquiry to promote a more engaging and rigorous experience for AP Physics students. Investigations will be used to foster student engagement in the practice of science through experimenting, analyzing, making conjectures and arguments, and solving problems in a collaborative setting.

Students may receive college credit for this course by taking the Advanced Placement Examination and earning a score acceptable to their college. This acceptable score varies from school to school and department to department.