



AP Physics 1

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overall course content...

- Kinematics
- Dynamics: Newton's laws
- Circular motion and universal law of gravitation
- Simple harmonic motion: Simple pendulum, Mass-spring system
- Impulse, linear momentum, and conservation of linear momentum: collisions
- Work, energy, and conservation of energy
- Rotational motion: torque, rotational kinematics and energy, rotational dynamics, and conservation of angular momentum
- Electrostatics; electric charge and electric force
- DC circuits: resistors only
- Mechanical waves and sound

why take this AP course...

- AP Physics 1, Mechanics, is the building block and foundation for analysis of things you can touch. Engineers apply it, but physicists understand it. Each is important and has its place, but the in-depth analysis and exploration for any math, science, and/or engineering pursuit is rooted in the fundamental formulas studied in AP Physics.

costs and savings breakdown for students...

- Most schools grant 4 semester hours for a passing score on the AP Physics 1 exam, though it is algebra-based, and certain programs require calculus-based physics.

frequently asked questions...

- Straight to the source...
 - <https://apcentral.collegeboard.org/courses/ap-physics-1/course/frequently-asked-questions>

student testimonials...

- Physics is definitely a tough subject, but it is fun and makes me examine the world a bit differently.
- Physics always strives to be fun, interesting, and relatable.
- I never knew how exciting science could be till I took physics.
- If math is about solving problems, then physics is about asking the questions.

