

SCIENCE CURRICULUM SUMMARY

The purpose of the Science Curriculum summary is to present an overview of the AP Physics curriculum. Parents are the intended audience of the Science curriculum.

| Mechanics |
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| Vector mathematics |
| Linear and Planar Kinematics |
| Dynamics of Linear Motion |
| Circular motion |
| Friction |
| Work |
| Kinetic Energy |
| Power |
| Potential Energy |
| Conservation of Energy |
| Force and potential energy relationship |
| Conservation of Momentum |
| Impulse |
| Elastic and Inelastic Collisions |
| Center of Mass |
| Rotational Kinematics |
| Moment of Inertia |
| Dynamics of Rotational motion |
| Angular Momentum |
| Equilibrium |
| Stress and Strain |
| Gravitation |
| Simple Harmonic Motion |
| Simple and Physical Pendulum |
| Damped and Forced Oscillations |

| Electricity and Magnetism |
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| Electric Charge |
| Electric Field |
| Electric Flux |
| Electric Potential Energy |
| Electric Potential |
| Capacitance |
| Dielectrics |
| Current |
| Resistivity |
| Resistance |
| Electromotive Force and Circuits |
| Direct Current Circuits |
| Magnetic Fields and Sources |
| Magnetic Forces |
| Electromagnetic Induction |
| Maxwell's Equations |
| Inductance |
| Inductance Circuits |
| Magnetic Field Energy |
| Alternating Current |
| Phasors |
| Resistance and Reactance |
| Power |
| Resonance |