



Online Labs for Physics is a fully-online lab experience that can be used as an in-person lab replacement, preparation, supplement or make-up lab to bridge the gap between lab and lecture. These simulations help a student learn the practical and conceptual skills needed, then check for understanding and provide feedback. With pre-lab and post-lab assessment available and editable, instructors can customize each assignment within Connect®. Labs have been designed for Algebra- and Calculus-Based Physics.

Mechanics
Free Fall
Trajectory
Inclined Plane
Friction Force
Terminal Velocity
Kinetic and Potential Energy
Collisions in One Dimension
Collisions in Two Dimensions
Rotation, Moment of Inertia
Harmonic Oscillation
Damped Oscillation
Coupled Oscillators
Uniform Circular Motion—In Development
Analyze Your Own Video– <i>In Development</i>

Induction
Impedance
Photo-Electric Effect
Optics
Optics Image Construction on Curved Mirrors
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Electricity and Magnetism

Batteries, Resistors, and Currents

Charging Capacitor

Wheatstone Bridge

Electron Beam in a Magnetic Field

Thermodynamics	
Calorimetry–In Development	

Waves
Doppler-In Development
Beats—In Development

Light Polarization

Double-Slit Interference and Diffraction