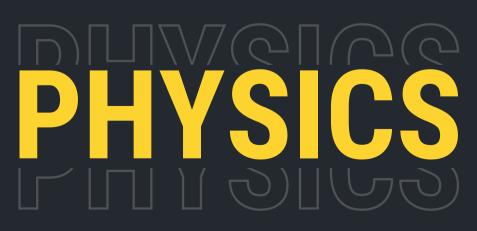
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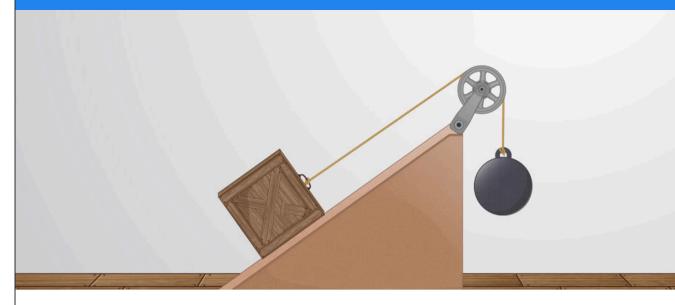
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Topics



Lessons



Scientist-In-Action Videos

PHYSICS PHYSICS

Core Learning Objectives

Master unit conversions, assess measurement accuracy, and identify errors.

Describe motion in one and two dimensions, applying Newton's laws.

Grasp rotational dynamics, fluid properties, laws of gravitation, and wave phenomena. Understand vectors, scalars, and applications of divergence and Stoke's theorem.

Solve problems involving forces, work, and conservation of energy.

Master principles of electricity, magnetism, circuits, and electromagnetic waves.



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JoVE Core: Physics

List of Chapters

- 1.1 Units, Dimensions, And Measurements
- **1.2 Vectors And Scalars**
- 1.3 Motion Along A Straight Line
- 1.4 Motion In Two Or Three Dimensions
- 1.5 Newton'S Laws Of Motion
- 1.6 Application Of Newton'S Laws Of Motion
- 1.7 Work And Kinetic Energy
- 1.8 Potential Energy And Energy Conservation
- 1.9 Linear Momentum, Impulse And Collisions
- 1.10 Rotation And Rigid Bodies
- 1.11 Dynamics Of Rotational Motions
- 1.12 Equilibrium And Elasticity
- 1.13 Fluid Mechanics
- 1.14 Gravitation
- 1.15 Oscillations
- 1.16 Waves
- 1.17 Sound
- 1.18 Temperature And Heat
- 1.19 The Kinetic Theory Of Gases
- 1.20 The First Law Of Thermodynamics
- 1.21 The Second Law Of Thermodynamics
- 1.22 Electric Charges And Fields
- 1.23 Gauss'S Law
- 1.24 Electric Potential
- 1.25 Capacitance
- 1.26 Current And Resistance
- 1.27 Direct-Current Circuits
- 1.28 Magnetic Forces And Fields
- 1.29 Sources Of Magnetic Fields
- **1.30 Electromagnetic Induction**
- 1.31 Inductance
- 1.32 Alternating-Current Circuits
- 1.33 Electromagnetic Waves



Basic Biology

2.1 Lab Safety





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