

Study Guide: Forces

I. What is a Force?

- **Definition:** A push or a pull that can cause a change in an object's motion (start moving, stop moving, or change direction).
- **Units:** Measured in Newtons (N).
- **Types of Forces:**
 - **Contact Forces:** Require physical contact between objects.
 - **Applied Force:** Force applied by a person or another object.
 - **Friction Force:** Opposes motion between two surfaces in contact.
 - **Normal Force:** Support force exerted upon an object in contact with another stable object.
 - **Tension Force:** Transmitted through a string, rope, cable, etc. when pulled tight from opposite ends.
 - **Spring Force:** Exerted by a compressed or stretched spring.
 - **Air Resistance:** Type of friction force that acts on objects moving through the air.
 - **Non-Contact Forces:** Act at a distance.
 - **Gravitational Force:** Attractive force between any two objects with mass.
 - **Magnetic Force:** Attractive or repulsive force between magnets or magnetic materials.
 - **Electric Force:** Attractive or repulsive force between charged objects.

II. Combining Forces

- **Net Force:** The combination of all forces acting on an object.
 - Forces in the same direction add together.
 - Forces in opposite directions subtract from one another.

III. Balanced and Unbalanced Forces

- **Balanced Forces:** Equal in size and opposite in direction; no change in motion.
- **Unbalanced Forces:** Not equal in size and/or opposite in direction; cause a change in motion (acceleration).

IV. Newton's Laws of Motion

Forces And Study Guide

JS Bruner



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Physics For Kids (Speedy Study Guide) Speedy Publishing,2014-12-28 A physics study guide for kids introduces young students to core scientific principles in a clear and accessible format and gives them an advantage in classes and when taking tests Physics study guides offer an introduction to core concepts like thermodynamics gravity energy and other invaluable information An easy to follow and engaging study guide can help spark a scientific interest in young students and inspire better homework habits and school performance

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