

8th Grade Physical Science Study Guide

MOTION, FORCES & NEWTON'S LAWS

HOW DO FORCES AND MOTION WORK TOGETHER?

What You Need to Know

- Motion** is a change in position & direction in a certain amount of time.
- Speed** = m/s
- Velocity** = speed + direction
- Acceleration** = change in velocity (speeding up, slowing down, or changing direction)
- Constant change motion** (distance vs. time) (time squared t^2)
- For constant acceleration, the rate that time is squared
- Relative** depends on what you are comparing to
- Newton's laws** explain motion
 - 1. First Law: An object stays at rest or moving at a constant velocity unless acted upon by a force.
 - 2. Second Law: Force = mass $\times$ acceleration ($F = ma$)
 - 3. Third Law: Every action has an equal and opposite reaction.
- Mass** = how much matter
- Weight** = force of gravity on an object (directional force)
- What happens when a force moves an object? (distance vs. time vs. force) (how fast work is done)
- Dependent on the direction of the force (effort) (changing the direction of the force)

Real-Life Science Spotlight

Why do you slide further when you stop?

The answer lies in the physics of motion. When you stop, your body continues to move forward due to inertia. This is why you need to brace yourself when a car stops suddenly.

Vocabulary to Know

- Speed** = distance divided by time
- Velocity** = speed with direction
- Acceleration** = change in velocity over time
- Force** = push or pull between two objects
- Friction** = a force that opposes motion
- Mass** = how much matter is in an object
- Weight** = gravitational force on an object
- Inertia** = resistance to change in motion
- Work** = force $\times$ distance (when force causes motion)
- Power** = work divided by time
- Simple Machine** = helps do work by changing the amount, direction, or distance of a force

Models & Visuals to Know

Speed/Time Graph



Force Diagram



Newton's Laws Examples



Study Tips & Tracker Included

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Page Keeley



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