

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 of an object over a period of time.
- **Speed** = $\text{distance} / \text{time}$
- **Velocity** = speed + direction
- **Acceleration** = change in velocity (speeding up, slowing down, or changing direction)
- **Constant velocity motion** (distance vs. time graph is a straight line)
- For constant acceleration, the area under the graph is constant
- **Relative motion** (motion relative to your point of view)
- **Newton's laws** explain motion
 - First Law: An object at rest stays at rest unless acted upon by an unbalanced force
 - Second Law: $F = ma$
 - Third Law: For every action, there is an equal and opposite reaction
- **Mass** = amount of matter
- **Weight** = force of gravity's pull on an object (mass \times gravity)
- **Work** happens when a force causes an object to move in the direction of the force
- **Energy** is the ability to do work (potential energy is stored energy)

Real-Life Science Spotlight

Why do you slide further when you go down a ramp?

The answer lies in the forces acting on the object. As the object moves down the ramp, the force of gravity pulls it down, and the force of friction opposes it.

Vocabulary to Know

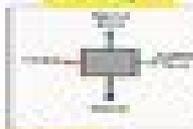
- **Speed** = distance divided by time
- **Velocity** = speed with direction
- **Acceleration** = change in velocity over time
- **Force** = push or pull that causes an object to move
- **Friction** = a force that opposes motion
- **Mass** = how much matter an object has
- **Weight** = gravitational force on an object
- **Work** = work done on an object by a force
- **Power** = work done in a unit of 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



1st Law



2nd Law



3rd Law



Simple Machines



Study Tips & Tracker Included

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Rosina Ehmman



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