

# 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** =  $\text{distance} / \text{time}$
- Velocity** = speed + direction
- Acceleration** = change in velocity (speeding up, slowing down, or changing direction)
- Constant change motion** (distance vs. time) shows constant speed
- Free fall** is an acceleration of  $9.8 \text{ m/s}^2$  due to gravity
- Relative** depends on what you are comparing to
- Newton's laws** explain motion
  - 1. First Law: An object at rest stays at rest unless acted upon by an unbalanced 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 (mass  $\times$  acceleration)
- What happens when a force is applied to an object? It moves or deforms
- Dependent on the direction of the force

### Real-Life Science Spotlight

Why do you slide further when you go down?

The answer lies in the forces acting on you. As you slide down, gravity pulls you down, and friction opposes it. The net force determines how fast you slide.

### 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 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

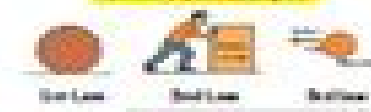
#### Speed/Time Graph



#### Force Diagram



#### Newton's Laws Examples



Study Tips & Tracker Included

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**N Noddings**



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