

# 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** =  $\text{m/s}$
- 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 does change in time
- Relative** depends on what you are looking at
- Newton's laws** explain motion
  - 1. First Law: An object stays at rest or moving unless acted upon
  - 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)
- It happens when a force makes an object move in a direction (force = how fast you move)
- Depends on how dense (compact) an object is (changing how dense would change weight)

### Real-Life Science Spotlight

Why do you slide further when you jump?

There's a little friction in your shoes that's slowing you down. If you're on a slippery surface, you'll slide further.

### Vocabulary to Know

- Speed** = distance divided by time
- Velocity** = speed with direction
- Acceleration** = change in velocity over time
- Force** = push or pull (measured in Newtons)
- Friction** = a force that opposes motion
- Mass** = how much matter is in an object
- Weight** = gravitational force on an object
- Inertia** = resistance to a 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

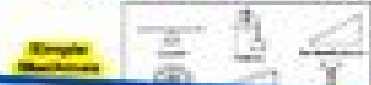
#### Speed/Time Graph



#### Force Diagram



#### Newton's Laws Examples



Study Tips & Tracker Included

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**DJ Losen**



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