

# 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 you slide down the ramp, the force of gravity pulls you down, and the force of friction opposes your motion.

### 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 is done when a force causes an object to move
- **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



1st Law



2nd Law



3rd Law



Simple Machines



Study Tips & Tracker Included

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**M Planty**



## **8th Grade Physical Science Study Guide:**

## Adopting the Track of Expression: An Mental Symphony within **8th Grade Physical Science Study Guide**

In a global used by monitors and the ceaseless chatter of fast conversation, the melodic splendor and mental symphony produced by the published term frequently diminish in to the back ground, eclipsed by the constant noise and disruptions that permeate our lives. However, located within the pages of **8th Grade Physical Science Study Guide** a charming literary value overflowing with organic emotions, lies an immersive symphony waiting to be embraced. Constructed by a masterful composer of language, that interesting masterpiece conducts visitors on an emotional trip, skillfully unraveling the hidden tunes and profound impact resonating within each cautiously crafted phrase. Within the depths with this touching analysis, we can explore the book is main harmonies, analyze its enthralling publishing style, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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