

Momentum Study Guide

What is Momentum?

- Momentum is the quantity of motion of a moving object.
- It is a vector quantity, meaning it has both magnitude and direction.
- The formula for momentum: $p=m \cdot v$
- where:
 p = momentum (kg·m/s)
 m = mass (kg)
 v = velocity (m/s)

Conservation of Momentum

- In a closed system, the total momentum before a collision or interaction is equal to the total momentum after. $p_{\text{total}} = p_{\text{total}}$

Study Guide: Understanding Acceleration

What is Acceleration?

- Acceleration is the rate at which an object's velocity changes over time.
- It is a vector quantity, meaning it has both **magnitude** and **direction**.
- Formula of acceleration

$$a = \frac{\Delta v}{\Delta t}$$

Where:

- a = acceleration (m/s²)
- Δv = change in velocity (m/s)
 ($v_{\text{final}} - v_{\text{initial}}$)
- Δt = time interval (s)

When Does Acceleration Happen?

- It occurs when there is a change in:
 - **Speed** (increasing or decreasing).
 - **Direction** (turning or curving).
 - **Both speed and direction** simultaneously.
- **When an Object Speeds Up**
 - This is called **positive acceleration**.
 - Example: A car increasing its speed from 0 m/s to 30 m/s.
- **When an Object Slows Down**
 - This is called **negative acceleration** or **deceleration**.

Motion And Momentum Study Guide

Arihant Experts



Motion And Momentum Study Guide:

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