

# PHYSICS 1

## STUDY GUIDE:

# MOMENTUM & IMPULSE

### STUDY GUIDE

## MOMENTUM & IMPULSE

#### Momentum

- The **linear momentum** of an object or system is its mass times its velocity. The **total momentum** by itself usually refers to **linear momentum**.
- Momentum is a **vector** that has a magnitude and a direction.
- The momentum vector is in the same direction as the velocity vector.
- Linear momentum may seem similar to linear kinetic energy but momentum is a vector while kinetic energy is a scalar quantity, and the equations are different.

Variables	SI Units
$p$ momentum	$\text{kg} \cdot \text{m/s}$
$m$ mass	$\text{kg}$
$v$ velocity	$\text{m/s}$

#### Momentum

$$p = mv$$

#### Momentum vector components

$$p_x = mv_x$$

$$p_y = mv_y$$



$$p = 15 \text{ kg} \cdot \text{m/s}$$



$$v = 3 \text{ m/s}$$



$$v = 5 \text{ m/s}$$

$$v_x = 5.2 \text{ m/s}$$

$$v_y = 3 \text{ m/s}$$

$$p = 15 \text{ kg} \cdot \text{m/s}$$

$$p_x = 15 \cdot 5.2 \text{ kg} \cdot \text{m/s}$$

$$p_x = 78 \text{ kg} \cdot \text{m/s}$$

$$p_y = 15 \cdot 3 \text{ kg} \cdot \text{m/s}$$

$$p_y = 45 \text{ kg} \cdot \text{m/s}$$

$$p = 85.6 \text{ kg} \cdot \text{m/s}$$

# Study Guide Impulse And Momentum

**David Cordes, Jerry D. Wilson, John  
Kinard**

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