

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	kg
v velocity	m/s

Momentum

$$p = mv$$

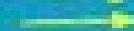
Momentum vector components

$$p_x = mv_x$$

$$p_y = mv_y$$



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



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

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

$$m = 5 \text{ kg}$$

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

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

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

$$m = 3 \text{ kg}$$

$$p_y = 9 \text{ kg} \cdot \text{m/s}$$

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

$$v_y = 15.6 \text{ m/s}$$

$$p = (3 \text{ kg} \cdot 15.6 \text{ m/s}) = 46.8 \text{ kg} \cdot \text{m/s}$$

Study Guide Impulse And Momentum

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