

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 word "momentum" by itself usually refers to linear momentum.
- Momentum is a vector so it 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 Unit
p	momentum $\frac{\text{kg} \cdot \text{m}}{\text{s}}$
m	mass kg
v	velocity $\frac{\text{m}}{\text{s}}$

Momentum

$$\vec{p} = m\vec{v}$$

Momentum vector components

$$p_x = mv_x$$

$$p_y = mv_y$$



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



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

3 kg

$$v = 6 \text{ m/s}$$

A diagram showing a mass 3 kg with a velocity vector v pointing upwards and to the right at an angle of 30° from the horizontal. Dashed lines indicate the horizontal component $v_x = 5.2 \text{ m/s}$ and the vertical component $v_y = 3 \text{ m/s}$.

$$p = 18 \text{ kg}\cdot\text{m/s}$$

A diagram showing a mass 3 kg with a momentum vector p pointing upwards and to the right at an angle of 30° from the horizontal. Dashed lines indicate the horizontal component $p_x = 15.6 \text{ kg}\cdot\text{m/s}$ and the vertical component $p_y = 9 \text{ kg}\cdot\text{m/s}$.

$$p = (3 \text{ kg})(6 \text{ m/s}) = 18 \text{ kg}\cdot\text{m/s}$$

Impulse And Momentum Study Guide Answers

JE Gale



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