

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 $\frac{\text{m}}{\text{s}}$

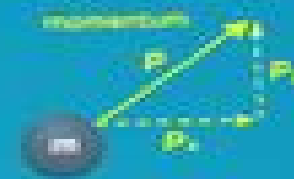
Momentum

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

Momentum vector components

$$p_x = mv_x$$

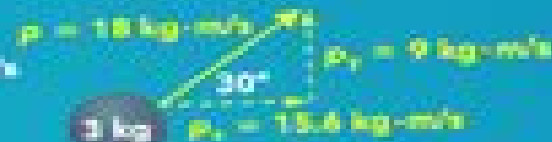
$$p_y = mv_y$$



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



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



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

Study Guide Impulse And Momentum

**Young, James R. Gaines, William F.
Palmer**



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