

Momentum

Post-assessment 1

1. What is the formula for linear momentum?
 - a) $p=m+v$
 - b) $p=m\times v$
 - c) $p=m/v$
 - d) $p=v/m$
2. Momentum is a measure of an object's:
 - a) Position
 - b) Speed
 - c) Mass and velocity
 - d) Acceleration
3. If an object's velocity doubles, its momentum will:
 - a) Stay the same
 - b) Be halved
 - c) Double
 - d) Become zero
4. Momentum is a vector quantity because it has:
 - a) Only magnitude
 - b) Only direction
 - c) Magnitude and direction
 - d) None of the above
5. A 5 kg object moving at 2 m/s has a momentum of:
 - a) 2 kg·m/s
 - b) 5 kg·m/s
 - c) 10 kg·m/s
 - d) 15 kg·m/s
6. The unit of momentum is:
 - a) Newton (N)
 - b) Joule (J)
 - c) Kilogram meter per second (kg·m/s)
 - d) Meter per second (m/s)

7. What happens to momentum in a closed system?

- a) It is lost
- b) It is transferred or conserved
- c) It disappears
- d) It doubles