

- 9 What is a statement of the principle of conservation of momentum?
- A A force is equal to the rate of change of momentum of the body upon which it acts.
 - B In a perfectly elastic collision, the relative momentum of the bodies before impact is equal to their relative momentum after impact.
 - C The momentum of a body is the product of the mass of the body and its velocity.
 - D The total momentum of a system of interacting bodies remains constant, providing no resultant external force acts on the system.