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## **Conservation of momentum worksheet answers chapter 8**

Velocity, Collision, Momentum, Conservation, Particles, Kinetic, Initial, Exerted, Relative, Height, Solutions, Cfbportal.schoolwires.net Linear momentum, often referenced as momentum for short, is defined as the product of a system's mass multiplied by its velocity,  $p = mv$ . The SI unit for momentum is kg m/s. Newton's second law of motion in terms of momentum states that the net external force equals the change in momentum of a system divided by the time over which it changes,  $F_{\text{net}} = \frac{\Delta p}{\Delta t}$ . Impulse is the average net external force multiplied by the time this force acts, and impulse equals the change in momentum,  $\Delta p = F_{\text{net}} \Delta t$ . Forces are usually not constant over a period of time, so we use the average of the force over the time it acts. The law of conservation of momentum is written  $p_{\text{tot}} = \text{constant}$  or  $p_{\text{tot}} = p'_{\text{tot}}$  (isolated system), where  $p_{\text{tot}}$  is the initial total momentum and  $p'_{\text{tot}}$  is the total momentum some time later. In an isolated system, the net external force is zero. Conservation of momentum applies only when the net external force is zero, within the defined system. If objects separate after impact, the collision is elastic; If they stick together, the collision is inelastic. Kinetic energy is conserved in an elastic collision, but not in an inelastic collision. The approach to two-dimensional collisions is to choose a convenient coordinate system and break the motion into components along perpendicular axes. Choose a coordinate system with the x-axis parallel to the velocity of the incoming particle. Two-dimensional collisions of point masses, where mass 2 is initially at rest, conserve momentum along the initial direction of mass 1, or the x-axis, and along the direction perpendicular to the initial direction, or the y-axis. Point masses are structureless particles that cannot spin.

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