

5-2 Conservation of Momentum

According to the **law of conservation of momentum**, the total momentum in a system remains the same if no external forces act on the system. Consider the two types of collisions that can occur.

Vocabulary

Elastic collision: A collision in which objects collide and bounce apart with no energy loss.

In an elastic collision, because momentum is conserved, the mv before a collision for each of the two objects must equal the mv after the collision for each of the two objects. This is written as

$$m_1v_{1o} + m_2v_{2o} = m_1v_{1f} + m_2v_{2f}$$

The subscripts 1 and 2 refer to objects 1 and 2, respectively.

Vocabulary

Inelastic collision: A collision in which objects collide and some mechanical energy is transformed into heat energy.

A common kind of inelastic collision is one in which the colliding objects stick together, or start out stuck together and then separate. However, in an inelastic collision the objects need not remain stuck together but may instead deform in some way.

Because momentum is also conserved in an inelastic collision, the mv before the collision for each of the two objects must equal the mv after the collision for each of the two objects. When objects are stuck together after the collision (assuming mass does not change), this equation becomes

$$m_1v_{1o} + m_2v_{2o} = (m_1 + m_2)v_f$$

where v_f is the combined final velocity of the two objects.

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TD Snyder



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