

Holt Physics Chapter 6: Momentum and Collisions

I. Section 6-1: Momentum and impulse

- A. Linear Momentum describes the force or energy that a moving object carries with it. Momentum can be transferred through collisions
- B. Momentum is defined as an object's mass multiplied by its velocity. Momentum is a vector quantity whose sign depends on its velocity.

Momentum

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

momentum = mass x velocity

- C. You can think of momentum as the force or energy needed to stop a moving, massive object.
- D. A change in momentum takes force and time
- E. Impulse is a change in momentum
- F. Impulse Momentum Theorem introduces the concept of time to momentum and states simply that a force applied over a time will change momentum due to the change in velocity.

Impulse-momentum Theorem

$$\mathbf{F}\Delta t = \Delta \mathbf{p} \quad \text{or} \quad \mathbf{F}\Delta t = \Delta \mathbf{p} = m\mathbf{v}_f - m\mathbf{v}_i$$

Force x time interval = change in momentum

II. Section 6-2: Conservation of Momentum

- A. Energy is transferred in collisions (ignoring friction) and momentum is conserved.
- B. The Law of Conservation of Momentum: "The total momentum of all objects interacting with one another remains

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