

Chapter 12: Forces and Motion

Section 12.3 Newton's Third Law of Motion and Momentum

(pages 372–377)

**Analyzing Momentum****Content and Vocabulary Support****Momentum**

Momentum is the product of an object's mass and velocity. The larger the mass of an object or the faster it is moving, the larger its momentum. If an object has large momentum, it is hard to stop. Imagine trying to stop a car rolling very slowly down a slope. It would be hard to do because of the large mass of the car, not because of the car's velocity. It would also be hard to stop an object with a small mass but great velocity, such as a baseball traveling more than 100 kilometers per hour. The baseball's speed would give it large momentum.

Momentum Formula

The formula for calculating the momentum of an object is:

$$\text{Momentum} = \text{Mass} \times \text{Velocity}$$

Momentum is measured in units of kilogram-meters per second, written kg-m/s. For example, the momentum of a golf ball with a mass of 0.05 kilograms and a speed of 58 meters per second is:

$$\text{Momentum} = 0.05 \text{ kg} \times 58 \text{ m/s} = 2.9 \text{ kg-m/s}$$

The equation for momentum can be rewritten to find mass or velocity if momentum is known:

$$\text{Mass} = \frac{\text{Momentum}}{\text{Velocity}}$$

$$\text{Velocity} = \frac{\text{Momentum}}{\text{Mass}}$$

Law of Conservation of Momentum

According to the law of conservation of momentum, within a system total momentum does not change. If one object loses momentum, another object gains momentum. Thus, momentum is conserved. For example, a baseball bat loses velocity and momentum when it hits a ball. However, the ball gains velocity and momentum when the bat strikes it.

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