

Momentum and the Conservation of Momentum

Momentum

Any object that is moving has momentum. The amount of momentum that it has depends on both the mass of the object and the velocity of the object. It can be expressed by the following simple equation:

$$p = mv$$

p = momentum; unit is kg m/s
 m = mass; unit is kg
 v = velocity; unit is m/s

Momentum is a vector, so direction needs to be included with any values.

In order for an object's momentum to change, there needs to be a force applied to the object. This change in momentum is equal to the force applied times the time interval over which the force is applied. This equation is often referred to as impulse.

$$\Delta p = F \Delta t \quad \text{or} \quad F = \Delta p / \Delta t$$

Δp = change in momentum; unit is kg m/s
 F = force; unit is Newtons
 Δt = time interval the force is applied; unit is s

Conservation of Momentum

The **Law of Momentum Conservation** tells us that the total momentum of a system will not change, as long as the sum of the forces acting on the system is zero. If there is another force introduced into the system, such as friction, air resistance, or a pulling force, momentum will not be conserved.

Conservation of momentum allows us to use it for many applications, such as rocket ships and collisions. The popular Newton's cradle is a device that demonstrates the conservation of momentum with swinging balls.

A few examples of momentum and conservation of momentum problems can be seen on the next page.



High School Physics Conservation Momentum

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