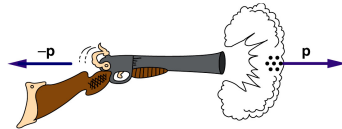


Conservation of Momentum

Learning Target	Description
9.2	I can define, interpret, and solve problems involving the Law of Conservation of Momentum.



Review Momentum and Impulse

Momentum

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

Impulse-Momentum Theorem

$$F \Delta t = \Delta p = p_f - p_i$$

Conservation of Momentum

What if $F_{net} = 0$?

$$F \Delta t = \Delta p = p_f - p_i$$

Conservation of Momentum

If the net force acting on an object is zero, its momentum is conserved.

the Physics Classroom Google Custom

- [Physics Tutorial](#)
- [Physics Interactives](#)
- [Concept Builders](#)
- [Shockwave Studios](#)
- [Multimedia Studios](#)
- [The Review Session](#)
- [Minds On Physics the App](#)

DIRECTIONS

- www.physicsclassroom.com
- Physics Interactives
- Momentum and Collisions
- Exploding Carts
- Launch Interactive