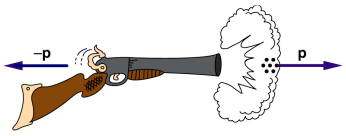
Conservation of Momentum

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



Review Momentum and Impulse

Momentum

$p = m v$

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.

DIRECTIONS

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