

# Momentum Notes

Momentum - motion inertia  $\rightarrow$  velocity

Symbol p Equation  $p = m \cdot v$  Unit  $\text{kg} \cdot \text{m/s}$

Problem Set #1: (1-2)

①

$m = 2500 \text{ kg}$

a)  $v_1 = 18 \text{ m/s}$   
 b)  $v_2 = 0$

a)  $p_1 = ?$   
 b)  $p_2 = ?$

$p = m \cdot v$

a)  $p_1 = 2500 \text{ kg} \cdot 18 \text{ m/s}$   
 $= 45000 \text{ kg} \cdot \text{m/s}$   
 b)  $p_2 = 0 \text{ kg} \cdot \text{m/s}$

②

$m_1 = 0.13 \text{ kg}$   
 $v = 36 \text{ m/s}$

a)  $p_1 = ?$   
 b)  $m_2 = 7.3 \text{ kg}$   
 $v_2 = ?$   
 $p_1 = p_2$

a)  $p = m \cdot v$   
 $p_1 = 468$   
 $\text{kg} \cdot \text{m/s}$   
 $v_2 = \frac{p_1}{m_2}$

$v_2 = \frac{468 \text{ kg} \cdot \text{m/s}}{7.3 \text{ kg}} = 64 \text{ s}$

Impulse Equation:

$\frac{F \cdot t}{\text{Impulse}} = \frac{\Delta m v}{\text{change in momentum}}$

An impulse is required to change the momentum of an object.  
 A change in momentum creates an impulse.

A golfer follows through on a swing to increase the ball's velocity and make it travel farther.

$F t = m \Delta v$

Following through keeps the club head on the ball for a longer period of time.  
 Since time and velocity are directly proportional, increasing time of contact increases velocity.

Answer using words and the impulse equation:

Why does a batter stop the bat when bunting?

To decrease the time on contact and decrease the velocity of the ball so it won't travel so far.

# Physics Fundamentals Episode 504 Note Taking Guide

**JL Elias**



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