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Play with the Sims → Physics → Motion → Collision Lab

### Introduction:

When objects move, they have momentum. Momentum,  $p$ , is the product of an object's mass (kg) and its velocity (m/s). The unit for momentum,  $p$ , is kg·m/s. During a collision objects transfer momentum to each other, resulting in different motions than before the collision. In this activity you will study the motion colliding objects.

$$\text{momentum} = m \times v$$

### ELASTIC Collisions

$$m_1 v_{1\text{before}} + m_2 v_{2\text{before}} = m_1 v_{1\text{after}} + m_2 v_{2\text{after}}$$

1. What defines a collision as being elastic?

In an inelastic collision, KE is not conserved.

2. Simulate the four elastic collisions below. Complete the table using math formulas and the simulation.

#	$m_1$	$m_2$	BEFORE COLLISION		$P_{\text{total}}$	AFTER COLLISION	
			$v_1$	$v_2$		$v_1$	$v_2$
1	2.0 kg	2.0 kg	1.5 m/s	0.00	0 kg·m/s	0.0 m/s	1.5 m/s
2	2.5 kg	5.0 kg	2.1 m/s	-1.0 m/s	0 kg·m/s	-1.67 m/s	1.33 m/s
3	3.0 kg	6.0 kg	2.0 m/s	0.0 m/s	6 kg·m/s	-0.67 m/s	1.33 m/s
4	6.0 kg	4.0 kg	2.0 m/s	-1.0 m/s	8.0 kg·m/s	-0.40 m/s	2.6 m/s

3. Two objects with the same mass move toward each other with the same speed and experience an elastic collision. Compare the final velocities of each object to their initial velocities.

$$\text{Velocities initial} = \text{Velocities final}$$

4. A less-massive moving object has an elastic collision with a more-massive object that is not moving. Compare the initial velocity (speed and direction) of the less-massive object to its final velocity.

$$m_1 v_i = 2.0 \text{ m/s (small object) speed was (KE)}$$

$$m_1 v_f = -0.67 \text{ m/s (small object) was transferred to more massive object}$$

Date: Sec 118

Section:

Run Now



# Internet Lab Momentum And Collisions Answer Key

**Guillaume Favre**



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