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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       | 0.33 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 Answers

**Ying-Ying Zheng**



## **Internet Lab Momentum And Collisions Answers:**

## Decoding **Internet Lab Momentum And Collisions Answers**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Internet Lab Momentum And Collisions Answers**," a mesmerizing literary creation penned by a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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