



Momentum and Simple 1D Collisions PhET Lab

Introduction: When objects move, they have momentum. Momentum, p , is simply the product of an object's mass (kg) and its velocity (m/s). The unit for momentum, p , is kgm/s. During a collision, an object's momentum can be transferred to **impulse**, which is the product of force (N) and time (s) over which the $\Delta p = m\Delta v = F\Delta t$ us to write the momentum-impulse theorem:



Collision Lab

Procedure: "Openstax Simulations" → <http://openstax.github.io/simulations/> **Collision Lab**

[Run Now!](#)

Work with **1D collisions** at this level. Velocity to the right is positive, left is negative. Check your work in the simulation after you have completed the tables.

Important Formulas: $m_1 \vec{v}_1 + m_2 \vec{v}_2 = p_{total} = m_1 \vec{v}_1' + m_2 \vec{v}_2'$ $v'_{12} = \frac{m_1 \vec{v}_1 + m_2 \vec{v}_2}{m_1 + m_2}$ Sticking collision

Perfectly Elastic Collisions:


[More Data](#)

To begin a collision:



To restart a collision:



- Take some time to familiarize yourself with the simulation and *perfect* collisions. Play. Investigate. Learn.
- Investigate the action of a **more-massive attacking object striking a less-massive target object**.
 - What happens to the more-massive attacking object? _____
 - What happens to the less-massive target object? _____
- Investigate the action of a **less-massive attacking object striking a more-massive target object**.
 - What happens to the less-massive attacking object? _____
 - What happens to the more-massive target object? _____
- Complete the below table without the simulation and **check your work in the simulation**.

m_1	m_2	v_1	v_2	p_{total}	v_1'	v_2'
1.20 kg	1.20 kg	+1.50 m/s	-1.80 m/s		-1.80 m/s	
2.40 kg	4.80 kg	+1.30 m/s	0.0 m/s		-.433 m/s	
2.50 kg	3.90 kg		.850 m/s	11.5 kgm/s		2.68 m/s
5.10 kg	1.00 kg	0.900 m/s	-4.60 m/s			4.60 m/s

KE stands for Kinetic Energy $KE = \frac{1}{2}mv^2$ and is measured in joules. Note that kinetic energy is not a vector quantity. Describe the effect of an **elastic** collision on the total kinetic energy of the two-object system.

Phet Collision Lab Answers

M Mark



Phet Collision Lab Answers:

Phet Collision Lab Answers Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become much more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Phet Collision Lab Answers**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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