



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.

Collisions Phet Lab Answers

Padhraic Smyth

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

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Table of Contents Collisions Phet Lab Answers

1. Understanding the eBook Collisions Phet Lab Answers
 - The Rise of Digital Reading Collisions Phet Lab Answers
 - Advantages of eBooks Over Traditional Books
2. Identifying Collisions Phet Lab Answers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Collisions Phet Lab Answers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Collisions Phet Lab Answers
 - Personalized Recommendations

- Collisions Phet Lab Answers User Reviews and Ratings
- Collisions Phet Lab Answers and Bestseller Lists
- 5. Accessing Collisions Phet Lab Answers Free and Paid eBooks
 - Collisions Phet Lab Answers Public Domain eBooks
 - Collisions Phet Lab Answers eBook Subscription Services
 - Collisions Phet Lab Answers Budget-Friendly Options
- 6. Navigating Collisions Phet Lab Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Collisions Phet Lab Answers Compatibility with Devices
 - Collisions Phet Lab Answers Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Collisions Phet Lab Answers
 - Highlighting and Note-Taking Collisions Phet Lab Answers
 - Interactive Elements Collisions Phet Lab Answers
- 8. Staying Engaged with Collisions Phet Lab Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Collisions Phet Lab Answers
- 9. Balancing eBooks and Physical Books Collisions Phet Lab Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Collisions Phet Lab Answers
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Collisions Phet Lab Answers
 - Setting Reading Goals Collisions Phet Lab Answers
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Collisions Phet Lab Answers
 - Fact-Checking eBook Content of Collisions Phet Lab Answers

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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