

MEGA-MENTUM LAB

http://phet.colorado.edu/sims/collision-lab/collision-lab_en.html

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 kg·m/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 force acts. This allows us to write the momentum-impulse theorem:



Collision Lab

Procedure: Play with the Sims → Physics → Motion → Collision Lab
 Work with **1D collisions** at this level. Later (AP Physics) you'll use solve 2D collisions. Velocity to the right is positive, left is negative. in the simulation after you have completed the tables.



trigonometry to Check your work

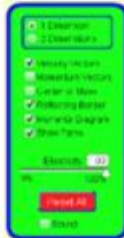
Important Formulas: $m_1\vec{v}_1 + m_2\vec{v}_2 = p_{total} = m_1\vec{v}_1' + m_2\vec{v}_2'$ $\Delta p = m\Delta v = F\Delta t$

A) Perfectly Elastic Collisions:



B) To begin a collision: To restart a collision:

- Take some time to familiarize yourself with the sim and *perfect* collisions. Play. Investigate. Learn.
- What defines a collision as being elastic?
- 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 their **initial velocities**.
- 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**
- Simulate the four elastic collisions below. Complete the table using math formulas and the simulation.
 - Investigate the action of a **more-massive moving object striking a less-massive target object**.
 - Investigate the action of a **less-massive moving object striking a more-massive target object**.
- Complete the below table without the simulation and **check your work in the simulation**



#	BEFORE COLLISION		p_{total}		AFTER COLLISION		
	m_1	m_2			v_1	v_2	Record From Computer
					v_1	v_2	
1	2.0 kg	2.0 kg	1.5 m/s		0 kg·m/s		
2	2.5 kg	5.0 kg		-1.0 m/s	0 kg·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.

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Collision Lab Basics: Description Subject Physics: Level High School, Middle School: Type Guided Activity, Lab: Duration 30 minutes: Answers Included No: Language English: Keywords 9th Grade Physical Science: Simulation(s) Collision Lab

Collision Lab Basics - PhET Contribution

At least Flash Player 8 required to run this simulation. No Flash Player was detected. Attempt to view the simulation anyways

Collision Lab 2.01 - PhET Interactive Simulations

Recorded with <http://screencast-o-matic.com>

Internet Lab Explained -Momentum and Collisions First Side ...

Question: Use The Phet Colorado Sims Collision Lab (the Introduction Lab) To Plug In The Information In Order To Solve The After Section Of Each Trial. I Am Very Confused By This Lab And Do Not Know How To Calculate The Before Simulation Of Each.my Teacher Only Said That You Enter The I Formation Provided In The Charts Into The Simulation And It Will Give You ...

Use The Phet Colorado Sims Collision Lab (the Intr ...

PhET Collision Lab: Description Inquiry based lesson. I used this in class with a calculus-based intro physics course. Can be used as a 90 minute or 50 minute lesson. See notes doc. Duration 60 minutes: Answers Included No: Language English: Keywords conservation of momentum, elastic, inelastic.

PhET Collision Lab - PhET Contribution

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Phet Lab Collision Answers

The purpose of this lab is to determine the mass of the cargo, which is carried on a low friction cart, by analysing its momentum during an elastic collision. Hypothesis. In this lab, it was hypothesized that the mass of the cargo will be greater than the mass that was placed on the second cart. The mass was hypothesized to be 1.500 kg.

Determining Mass In An Elastic Collision Lab Answers ...

Question: Signment Sec (3 Internet Lab-Momentum And Collisions Website: [Http://phet.colorado.edu/](http://phet.colorado.edu/) 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 E To ...

Solved: Signment Sec (3 Internet Lab-Momentum And Collisio ...

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