



## 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.

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# Phet Lab Activity On Momentum Answers

**Holt Rinehart & Winston**



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