

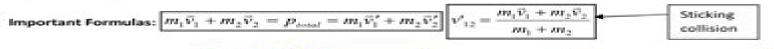
Momentum and Simple 1D Collisions PhET Lab

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:



Procedure: "Openstax Simulations" ->http://openstax.glthub.io/simulations/ Collision Lab

Work with 10 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.



Perfectly Elastic Collisions:

- 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	V1	V2	Ptotal	V1	V2'
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 = 1/2 mm2 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

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