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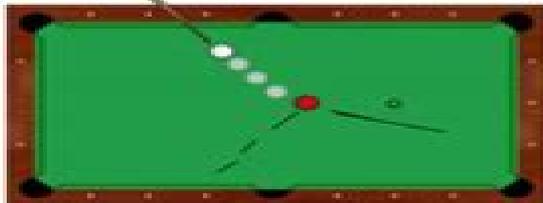
Student Exploration: 2D Collisions

Directions: Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

Vocabulary: center of mass, conservation of energy, conservation of momentum, elasticity, kinetic energy, momentum, speed, vector, velocity

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

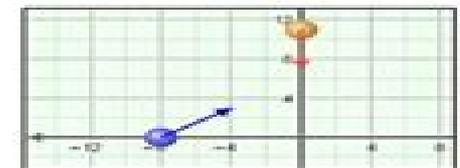
 Hand draw in this space or click here to select EDIT to use the drawing tool.



1. A pool cue hits the white cue ball, which travels across the table and strikes the red ball, as shown at right. Draw a solid line to show the path you would expect the red ball to take.
2. Draw a dashed line to show how you think the white ball will move after it has struck the red ball.

Gizmo Warm-up

Objects collide all the time, but often with very different results. Sometimes colliding objects will stick together. Other times, they will bounce off each other at an angle. What determines how objects will behave in a collision? You can use the 2D Collisions Gizmo to find out.



Note the arrows, or **vectors**, on each puck. Click **Play** ()

1. How does the direction and length of its vector relate to the motion of a puck?

The direction and length of the vector will affect the velocity of the puck.

2. The **velocity** (speed and direction) of each puck is described by components in the **i** and **j** directions. The symbol for velocity is **v**. (Vector quantities are shown in bold.)

A. Which component represents movement in the east-west direction?

B. Which component represents movement in the north-south direction?

3. The **speed** (v) of a puck is equal to the length of its velocity vector. To calculate the speed of a puck with a velocity of $a\mathbf{i} + b\mathbf{j}$, use the *Pythagorean theorem*: $v = \sqrt{a^2 + b^2}$

Set the velocity of the blue puck to $12.00\mathbf{i} + 5.00\mathbf{j}$ m/s. What is its speed? $v =$

2d Collisions Gizmo Answers Mimianore

Daniel F McAuley



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