



Name: \_\_\_\_\_ Date: \_\_\_\_\_

## Student Exploration: 2D Collisions

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

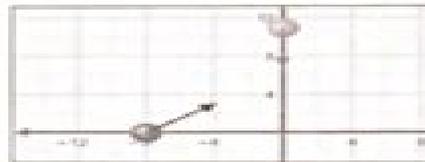
**Prior Knowledge Questions** (Do these BEFORE using the Gizmo.)



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 length points to speed and the direction points to the direction of momentum.
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?  $\hat{i}$  is east-west.
  - B. Which component represents movement in the north-south direction?  $\hat{j}$  is North-South.
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  $a\hat{i} + b\hat{j}$ , use the *Pythagorean theorem*:  $v = \sqrt{a^2 + b^2}$   
Set the velocity of the blue puck to  $12.00\hat{i} + 5.00\hat{j}$  m/s. What is its speed?  $v = 13.0 m/s$



# 2d Collisions Gizmo Answers Key

**Zhe Xu**



## 2d Collisions Gizmo Answers Key:

## Decoding **2d Collisions Gizmo Answers Key**: Revealing the Captivating Potential of Verbal Expression

In an era characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its ability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**2d Collisions Gizmo Answers Key**," a mesmerizing literary creation penned with a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring impact on our lives. In this appraisal, we shall explore the book's central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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