



Name: _____ Date: _____

Student Exploration: 2D Collisions

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

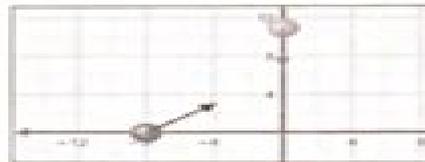
Prior Knowledge Questions (Do these BEFORE using the Gizmo.)



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

L Cohen



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Table of Contents 2d Collisions Gizmo Answers Key

1. Understanding the eBook 2d Collisions Gizmo Answers Key
 - The Rise of Digital Reading 2d Collisions Gizmo Answers Key
 - Advantages of eBooks Over Traditional Books
2. Identifying 2d Collisions Gizmo Answers Key
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an 2d Collisions Gizmo Answers Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from 2d Collisions Gizmo Answers Key
 - Personalized Recommendations
 - 2d Collisions Gizmo Answers Key User Reviews and Ratings
 - 2d Collisions Gizmo Answers Key and Bestseller Lists
5. Accessing 2d Collisions Gizmo Answers Key Free and Paid eBooks
 - 2d Collisions Gizmo Answers Key Public Domain eBooks
 - 2d Collisions Gizmo Answers Key eBook Subscription Services
 - 2d Collisions Gizmo Answers Key Budget-Friendly Options
6. Navigating 2d Collisions Gizmo Answers Key eBook Formats

- ePub, PDF, MOBI, and More
 - 2d Collisions Gizmo Answers Key Compatibility with Devices
 - 2d Collisions Gizmo Answers Key Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of 2d Collisions Gizmo Answers Key
 - Highlighting and Note-Taking 2d Collisions Gizmo Answers Key
 - Interactive Elements 2d Collisions Gizmo Answers Key
 8. Staying Engaged with 2d Collisions Gizmo Answers Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers 2d Collisions Gizmo Answers Key
 9. Balancing eBooks and Physical Books 2d Collisions Gizmo Answers Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection 2d Collisions Gizmo Answers Key
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine 2d Collisions Gizmo Answers Key
 - Setting Reading Goals 2d Collisions Gizmo Answers Key
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of 2d Collisions Gizmo Answers Key
 - Fact-Checking eBook Content of 2d Collisions Gizmo Answers Key
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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