

2d collisions gizmo answers mimianore

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2D Collisions Gizmo Answers: Mimianore

1. What is the purpose of the 2D Collisions Gizmo?

The 2D Collisions Gizmo is a virtual laboratory that allows students to explore the principles of two-dimensional collisions. By manipulating objects with different masses and velocities, they can observe how these factors affect the outcome of the collisions.

2. How do you use the gizmo to find the coefficient of restitution for a collision?

To find the coefficient of restitution, set the gizmo to display the "Velocity Vectors" and "Kinetic Energy" of the objects. Collide the objects at a known velocity and record the velocities and kinetic energies before and after the collision. The coefficient of restitution can be calculated using the formula $e = (v_{2i} - v_{1f}) / (v_{1i} - v_{2f})$, where v_{1i} and v_{2i} are the initial velocities of the objects and v_{1f} and v_{2f} are the final velocities.

3. What is the relationship between the mass of an object and its momentum?

Momentum is defined as the mass of an object multiplied by its velocity. This means that the heavier an object is, the greater its momentum will be at a given velocity.

4. How does the coefficient of restitution affect the elasticity of a collision?

The coefficient of restitution is a measure of the elasticity of a collision. A higher coefficient of restitution indicates that the objects rebound more from each other after colliding, while a lower coefficient of restitution indicates that they stick together.

more.

5. What can you learn from the 2D Collisions Gizmo?

Through experimentation with the gizmo, students can learn about the following concepts:

- The principles of momentum and energy conservation
- The relationship between mass, velocity, and momentum
- The inelastic and elastic collisions
- The coefficient of restitution
- The effects of friction and gravity on collisions

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