

Momentum, Energy and Collisions

The collision of two carts on a track can be described in terms of momentum conservation and, in some cases, energy conservation. If there is no net external force experienced by the system of two carts, then we expect the total momentum of the system to be conserved. This is true regardless of the force acting between the carts. In contrast, energy is only conserved when certain types of forces are exerted between the carts.

Collisions are classified as *elastic* (kinetic energy is conserved), *inelastic* (kinetic energy is lost) or *completely inelastic* (the objects stick together after collision). Sometimes collisions are described as *super-elastic*, if kinetic energy is gained. In this experiment you can observe most of these types of collisions and test for the conservation of momentum and energy in each case.

OBJECTIVES

- Observe collisions between two carts, testing for the conservation of momentum.
- Measure energy changes during different types of collisions.
- Classify collisions as elastic, inelastic, or completely inelastic.

MATERIALS

computers
Vernier computer interface
Logger Pro
two Vernier Motion Detectors

dynamics cart track
two low-friction dynamics carts with
magnetic and Velcro™ bumpers

PRELIMINARY QUESTIONS

1. Consider a head-on collision between two billiard balls. One is initially at rest and the other moves toward it. Sketch a position vs. time graph for each ball, starting with time before the collision and ending a short time afterward.



Momentum Energy Collisions Lab 19 Answer Key Traders

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Momentum Energy Collisions Lab 19 Answer Key Traders:

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Table of Contents Momentum Energy Collisions Lab 19 Answer Key Traders

1. Understanding the eBook Momentum Energy Collisions Lab 19 Answer Key Traders
 - The Rise of Digital Reading Momentum Energy Collisions Lab 19 Answer Key Traders
 - Advantages of eBooks Over Traditional Books
2. Identifying Momentum Energy Collisions Lab 19 Answer Key Traders
 - 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 Momentum Energy Collisions Lab 19 Answer Key Traders
 - User-Friendly Interface
4. Exploring eBook Recommendations from Momentum Energy Collisions Lab 19 Answer Key Traders
 - Personalized Recommendations
 - Momentum Energy Collisions Lab 19 Answer Key Traders User Reviews and Ratings
 - Momentum Energy Collisions Lab 19 Answer Key Traders and Bestseller Lists
5. Accessing Momentum Energy Collisions Lab 19 Answer Key Traders Free and Paid eBooks
 - Momentum Energy Collisions Lab 19 Answer Key Traders Public Domain eBooks
 - Momentum Energy Collisions Lab 19 Answer Key Traders eBook Subscription Services
 - Momentum Energy Collisions Lab 19 Answer Key Traders Budget-Friendly Options

6. Navigating Momentum Energy Collisions Lab 19 Answer Key Traders eBook Formats
 - ePub, PDF, MOBI, and More
 - Momentum Energy Collisions Lab 19 Answer Key Traders Compatibility with Devices
 - Momentum Energy Collisions Lab 19 Answer Key Traders Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Momentum Energy Collisions Lab 19 Answer Key Traders
 - Highlighting and Note-Taking Momentum Energy Collisions Lab 19 Answer Key Traders
 - Interactive Elements Momentum Energy Collisions Lab 19 Answer Key Traders
8. Staying Engaged with Momentum Energy Collisions Lab 19 Answer Key Traders
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Momentum Energy Collisions Lab 19 Answer Key Traders
9. Balancing eBooks and Physical Books Momentum Energy Collisions Lab 19 Answer Key Traders
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Momentum Energy Collisions Lab 19 Answer Key Traders
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Momentum Energy Collisions Lab 19 Answer Key Traders
 - Setting Reading Goals Momentum Energy Collisions Lab 19 Answer Key Traders
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Momentum Energy Collisions Lab 19 Answer Key Traders
 - Fact-Checking eBook Content of Momentum Energy Collisions Lab 19 Answer Key Traders
 - 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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