

Name: _____

Date: _____

Student Exploration: Fan Cart Physics

Vocabulary: acceleration, force, friction, mass, newton, Newton's first law, Newton's second law, Newton's third law, velocity

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

1. Imagine a horse pulling a cart. What would happen to the speed of the cart if several bags of cement were added to the cart? _____
2. Suppose several more horses were hitched up to the same cart. How would this affect the speed of the cart? _____

Although these questions may seem simple, they form the basis of **Newton's second law** of motion. The *Fan Cart Physics Gizmo™* can be used to illustrate all three of Newton's laws.

Gizmo Warm-up

The *Fan Cart Physics Gizmo™* shows a common teaching tool called a fan cart. Place fan **A** on the cart and turn it on by clicking the **ON/OFF** button below.

1. Look at the blue lines coming from the fan. In which direction is the air pushed? _____
2. Press **Play** (▶) and observe the cart. In which direction does the cart move? _____



By blowing to the left, the fans exert a **force** on the cart that pushes it to the right. This illustrates **Newton's third law**: A force in one direction results in an equal force in the opposite direction.

3. The **velocity** (v) of the cart is its speed and direction. Click **Reset** (↺). Select the **BAR CHART** tab, and click **Play**. Does the velocity change or stay the same? _____
A change in velocity is called **acceleration** (a).

Student Exploration Fan Cart Physics Answer Key Quiz

JG Myers



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Table of Contents Student Exploration Fan Cart Physics Answer Key Quiz

1. Understanding the eBook Student Exploration Fan Cart Physics Answer Key Quiz
 - The Rise of Digital Reading Student Exploration Fan Cart Physics Answer Key Quiz
 - Advantages of eBooks Over Traditional Books
2. Identifying Student Exploration Fan Cart Physics Answer Key Quiz
 - 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 Student Exploration Fan Cart Physics Answer Key Quiz
 - User-Friendly Interface
4. Exploring eBook Recommendations from Student Exploration Fan Cart Physics Answer Key Quiz
 - Personalized Recommendations
 - Student Exploration Fan Cart Physics Answer Key Quiz User Reviews and Ratings
 - Student Exploration Fan Cart Physics Answer Key Quiz and Bestseller Lists
5. Accessing Student Exploration Fan Cart Physics Answer Key Quiz Free and Paid eBooks
 - Student Exploration Fan Cart Physics Answer Key Quiz Public Domain eBooks
 - Student Exploration Fan Cart Physics Answer Key Quiz eBook Subscription Services

Student Exploration Fan Cart Physics Answer Key Quiz

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