



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? It would slow down, as the greater the mass the more force it takes to move / accelerate.
2. Suppose several more horses were hitched up to the same cart. How would this affect the speed of the cart? It would speed up.


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? To the right.

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? It increases.
A change in velocity is called **acceleration** (a).



Explore Learning Challenge Fan Cart Physics

Jiyuan Zhang



Explore Learning Challenge Fan Cart Physics:

Decoding **Explore Learning Challenge Fan Cart Physics**: 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 power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Explore Learning Challenge Fan Cart Physics**," a mesmerizing literary creation penned with a celebrated wordsmith, readers embark on 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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Table of Contents Explore Learning Challenge Fan Cart Physics

1. Understanding the eBook Explore Learning Challenge Fan Cart Physics
 - The Rise of Digital Reading Explore Learning Challenge Fan Cart Physics
 - Advantages of eBooks Over Traditional Books
2. Identifying Explore Learning Challenge Fan Cart Physics
 - 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 Explore Learning Challenge Fan Cart Physics
 - User-Friendly Interface
4. Exploring eBook Recommendations from Explore Learning Challenge Fan Cart Physics
 - Personalized Recommendations
 - Explore Learning Challenge Fan Cart Physics User Reviews and Ratings

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