



Gizmos

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).



Fan Cart Physics Gizmo

R Bogdan

A red circular graphic with a gradient, appearing as a stylized arrow or a light effect, positioned to the right of the author's name.

Fan Cart Physics Gizmo:

Unveiling the Magic of Words: A Report on "**Fan Cart Physics Gizmo**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Fan Cart Physics Gizmo**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book's central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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Table of Contents Fan Cart Physics Gizmo

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

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