



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).



What Are The Answers To Fan Physics Gizmo

SB Merriam



What Are The Answers To Fan Physics Gizmo:

The book delves into What Are The Answers To Fan Physics Gizmo. What Are The Answers To Fan Physics Gizmo is an essential topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into What Are The Answers To Fan Physics Gizmo, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
 - Chapter 1: Introduction to What Are The Answers To Fan Physics Gizmo
 - Chapter 2: Essential Elements of What Are The Answers To Fan Physics Gizmo
 - Chapter 3: What Are The Answers To Fan Physics Gizmo in Everyday Life
 - Chapter 4: What Are The Answers To Fan Physics Gizmo in Specific Contexts
 - Chapter 5: Conclusion
 2. In chapter 1, the author will provide an overview of What Are The Answers To Fan Physics Gizmo. The first chapter will explore what What Are The Answers To Fan Physics Gizmo is, why What Are The Answers To Fan Physics Gizmo is vital, and how to effectively learn about What Are The Answers To Fan Physics Gizmo.
 3. In chapter 2, the author will delve into the foundational concepts of What Are The Answers To Fan Physics Gizmo. The second chapter will elucidate the essential principles that must be understood to grasp What Are The Answers To Fan Physics Gizmo in its entirety.
 4. In chapter 3, the author will examine the practical applications of What Are The Answers To Fan Physics Gizmo in daily life. This chapter will showcase real-world examples of how What Are The Answers To Fan Physics Gizmo can be effectively utilized in everyday scenarios.
 5. In chapter 4, this book will scrutinize the relevance of What Are The Answers To Fan Physics Gizmo in specific contexts. This chapter will explore how What Are The Answers To Fan Physics Gizmo is applied in specialized fields, such as education, business, and technology.
 6. In chapter 5, this book will draw a conclusion about What Are The Answers To Fan Physics Gizmo. This chapter will summarize the key points that have been discussed throughout the book.
- This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of What Are The Answers To Fan Physics Gizmo.

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