

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

G Thomas



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Deep Learning in Introductory Physics Mark J. Lattery, 2016-10-17 Deep Learning in Introductory Physics explores how students learn physics in a model centered classroom It addresses the coherence vs fragmentation debate and suggests that deep science learning is regressive and revolutionary

Unveiling the Magic of Words: A Report on "**Student Exploration Fan Cart Physics Answer Key Quiz** "

In a global 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 "**Student Exploration Fan Cart Physics Answer Key Quiz** ," 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 in to the book is central themes, examine its distinctive writing style, and assess its profound effect on the souls of its readers.

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