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Date: Sunday, August 1st

SPH3U1 - Unit 2: Fan Cart Physics

Directions: Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

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?

The cart will slow down due to the mass increasing and the more force it'll take to move the cart.

2. Suppose several more horses were hitched up to the same cart. How would this affect the speed of the cart?

The cart would speed up as there is more force this time.

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?

to the left

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

yes it changes

Gizmo Answer Key Fan Cart Physics

Albert A Gayle

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Gizmo Answer Key Fan Cart Physics:

Reviewing **Gizmo Answer Key Fan Cart Physics**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Gizmo Answer Key Fan Cart Physics**," an enthralling opus penned by a very acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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