

Student Exploration: Fan Cart Physics

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.



- Look at the blue lines coming from the fan. In which direction is the air pushed? _____
- 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.

- The **velocity** (v) of the cart is its speed and direction. Click **Reset** (↺). Select the **Graph** tab, and click **Play**. Does the velocity change or is it constant? _____

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

Activity B:

Newton's second law

Get the Gizmo ready:

- Click **Reset**.
- Set the **Initial velocity of cart** to 0.0 m/s.
- Place all three fans on the cart and turn them on.



Question: How do mass and force affect acceleration?

4. **Form hypothesis:**

- How do you think changing the **mass** of the cart will affect its acceleration? _____
- How do you think the number of fans will affect the cart's acceleration? _____

5. **Experiment:** Select the **BAR CHART** tab and turn on **Show numerical values**. For each of the situations below, record the acceleration of the cart. After recording acceleration **CLICK THE GRAPH** Tab and compare the shape of the graph for each trial. Then Select the **BAR CHART** tab and continue.

Load	Number of fans turned on	Acceleration
3 fans, 0 mass units	1	
3 fans, 0 mass units	2	
3 fans, 0 mass units	3	
3 fans, 2 mass units	1	
3 fans, 2 mass units	2	
3 fans, 2 mass units	3	

6. **Analyze:** Look at the acceleration values.

- How did doubling the force affect the acceleration of the cart? _____
- Compare the first and third lines of data. How did tripling the force affect the acceleration of the cart? _____
- A cart with two mass units and three fans has twice the mass as a cart with just three fans. How did doubling the mass affect the acceleration of the cart? _____

Fan Cart Gizmo Quiz Answer Key

Hussin A.Rothana

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

Fan Cart Gizmo Quiz Answer Key:

The Enigmatic Realm of **Fan Cart Gizmo Quiz Answer Key**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing lacking extraordinary. Within the captivating pages of **Fan Cart Gizmo Quiz Answer Key** a literary masterpiece penned with a renowned author, readers set about a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those that partake in its reading experience.

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