

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? _____

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Thirumalaisamy P.
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