

## 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? \_\_\_\_\_

# Gizmo Lab Fan Cart Physics Lab Answers

**L Cohen**



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