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## 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 Lab Fan Cart Physics Lab Answers

**Michal Rosen-Zvi**



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