

## RST.4 Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific or technical context

### Student Exploration: Force and Fan Carts

**Vocabulary:** force, friction, position, speed

Prior Knowledge Questions (Do these BEFORE using the Gizmo.)

1. If you are pushing a shopping cart and you start pushing harder, what happens?

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2. What happens to a shopping cart if you get it rolling and then release it?

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Gizmo Warm-up

1. In the Gizmo™, turn the fan Off. Click Play (▶). Did the cart move? \_\_\_\_\_

2. Click Reset (↺). Press the Low fan speed button to turn on the fan. Click Play. What happened?

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3. A **force** is something that causes change in motion. What provided the force that made the cart speed up?

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4. The speedometer shows the cart's **speed**, or how fast it moves. A speed of 30 cm per second means the cart moves 30 cm every second. What was the final speed of the cart?

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5. **Friction** is a force that works against motion as surfaces rub each other. Click Reset. Select the low friction surface. Click Play. What was the final speed this time?

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### LESSON MATERIALS:

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# Explore Learning Gizmos Answer Key

**Xiaolong Qi**

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.

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