

# Student Exploration: Inclined Plane - Simple Machine

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

Jan is moving to a new apartment. She needs to load her sofa and other large furniture into a moving van. The rear of the moving van is 1.5 meters high.

1. What could Jan use to make loading furniture on the van easier?

A ramp (inclined plane)

2. Why would this help?

The slanted surface of a ramp supports the weight of the object, she would not need to directly lift it.

## Gizmo Warm-up

A **simple machine** can be used to make tasks like lifting heavy weights easier. One example of a simple machine is a ramp, or **inclined plane**. You can use the *Inclined Plane – Simple Machine Gizmo™* to see how inclined planes can help to lift objects.

On the **CONTROLS** pane, make sure the **Angle** is  $30^\circ$ , the **Coeff. of friction** is 0.00, and the **Weight** is 300 N.



1. The brick has a weight of 300 newtons (N).

How much force would it take to lift the brick straight up?

A bit more than 300 N

2. Set the **External force** to **On**. A car appears, ready to push on the brick. Set the

**Applied force** to 100 N and click **Play** (▶). What happens?

The brick and car slide down the inclined plane.

3. Click **Reset** (↺). Using the Gizmo, find the smallest force that is required to push the block up the  $30^\circ$  ramp. What is the smallest force required?

151 N



# Answer Key To Student Exploration Inclined Plane Simple Machines

**Frederick Edward Saward**



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