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## Student Exploration: Inclined Plane – Rolling Objects

**Directions:** Follow the instructions to go through the simulation. Respond to the questions and prompts in the orange boxes.

*[Note to teachers and students: This Gizmo was designed as a follow-up to the Inclined Plane – Sliding Objects Gizmo. We recommend doing that activity before trying this one.]*

**Vocabulary:** moment of inertia, rotational kinetic energy, translational kinetic energy

**Prior Knowledge Question** (Do this BEFORE using the Gizmo.)

A boy rolls an old car tire down a hill. It goes pretty fast, but he wants the tire to go even faster. So, the boy climbs inside and rolls down the hill inside the tire.

Assuming there are no crashes, how do you think the speed of the tire with the boy inside will compare to the speed of the empty tire? Explain your answer.

I think that with the boy in the tire, it will speed up and travel faster. However, without the boy inside the tire, it will not roll as fast.

### **Gizmo Warm-up**

Do all round objects roll at the same rate, or does their distribution of mass make a difference? You can explore this question with the *Inclined Plane – Rolling Objects* Gizmo.

On **Ramp 1**, select a **Ring of Steel** on a **Frictionless** ramp. On **Ramp 2**, select a **Disk of Steel** on a **Frictionless** ramp. Check that each ramp has an **Angle** of  $20^\circ$ .



1. Click **Play** (▶). What was the result of the race to the bottom?

they got there at the same time

2. On a frictionless ramp, neither object will roll. Instead, they will slide. Click **Reset** (↺), and change the material of each ramp to **Wood**. Click **Play**.

Which object wins the race this time?

disk of steel

3. Which object is similar to an empty tire?

ring of steel

Which is similar to a tire with a person inside of it?

disk of steel

# Gizmo Answers For Inclined Plane Sliding Objects

**Sally M. Walker, Roseann Feldmann**



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