



Gizmos

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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.

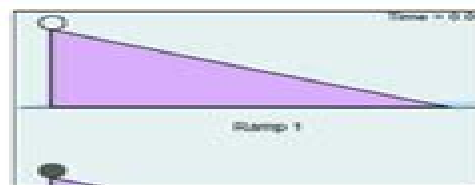
Assuming there are no crashes, how do you think the speed of the tire with the boy inside will compare to the speed of the empty tire? Explain your answer.

The speed of the wheel without the boy will be slower than with the boy because there is more mass and inertia in the wheel with the boy.

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°**.



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

Reached the bottom 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 wins

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

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Inclined Plane Rolling Objects Gizmo

Chris Oxlade



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