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Date: **February 1st**

Format all responses in **blue bold font**.

Student Exploration: Roller Coaster Physics

Vocabulary (refer to vocab file located on the Gizmo site for definitions): friction, gravitational potential energy, kinetic energy, momentum



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

Sally gets onto the roller coaster car, a bit nervous already. Her heart beats faster as the car slowly goes up the first long, steep hill.

1. What happens at the beginning of every roller coaster ride?
You go up a very large hill and then go down it.
2. Does the roller coaster ever get higher than the first hill?
Explain.

No because any hill higher than the first one will cause

deceleration.

Gizmo Warm-up: The *Roller Coaster Physics* Gizmo™ models a roller coaster with a toy car on a track that leads to an egg. You can change the track or the car. For the first experiment, use the default settings (Hill 1 = 70 cm, Hill 2 = 0 cm, Hill 3 = 0 cm, 35-g car).

1. Press **Play** (▶) to roll the 35-gram toy car down the track. Does the car break the egg?

It touches it but does not break it.

2. Click **Reset** (↺). Set Hill 1 to 80 cm, and click **Play**. Does the car break the egg? __
Yes.

3. Click **Reset**. Lower Hill 1 back to 70 cm and select the 50-gram toy car. Click **Play**. Does the 50-gram car break the egg?

Yes

4. What factors seem to determine whether the car will break the egg?

The weight of the car and the height of the hill.



Roller Coaster Physics Answers

Ying-Ying Zheng



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