

Name: **Kailee Green**

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.**

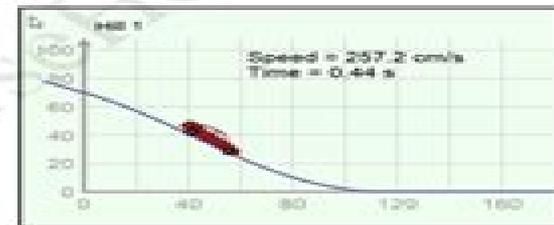
2. Click **Reset** (↺). Set **Hill 1** to 80 cm, and click **Play**. Does the car break the egg? **\_\_\_**  
**Yes.**

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

**Lei Huang**



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