

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.**

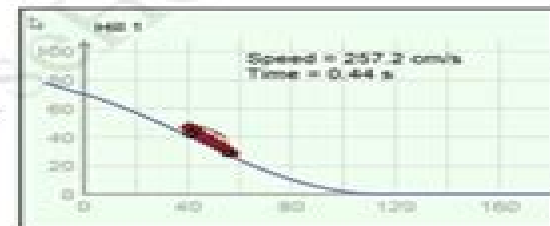
2. Click Reset (↺). Set Hill 1 to 80 cm, and click Play. Does the car break the egg? \_\_  
**Yes.**

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 Gizmo Answers

**Tobias Bleicker**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

## **Roller Coaster Gizmo Answers:**

## Unveiling the Power of Verbal Artistry: An Emotional Sojourn through **Roller Coaster Gizmo Answers**

In some sort of inundated with displays and the cacophony of immediate conversation, the profound power and mental resonance of verbal art often diminish into obscurity, eclipsed by the regular assault of sound and distractions. However, nestled within the musical pages of **Roller Coaster Gizmo Answers**, a interesting function of literary splendor that impulses with fresh emotions, lies an unforgettable trip waiting to be embarked upon. Published by way of a virtuoso wordsmith, that mesmerizing opus books readers on a psychological odyssey, delicately revealing the latent potential and profound impact stuck within the delicate internet of language. Within the heart-wrenching expanse of this evocative analysis, we shall embark upon an introspective exploration of the book is key themes, dissect its interesting publishing design, and immerse ourselves in the indelible effect it leaves upon the depths of readers souls.

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