

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 Gizmo Answers

Yi-Tong Ma

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

Roller Coaster Physics Gizmo Answers:

Unveiling the Energy of Verbal Artistry: An Emotional Sojourn through **Roller Coaster Physics Gizmo Answers**

In a world inundated with displays and the cacophony of immediate connection, the profound power and emotional resonance of verbal beauty often fade into obscurity, eclipsed by the continuous barrage of noise and distractions. However, situated within the musical pages of **Roller Coaster Physics Gizmo Answers**, a fascinating function of fictional splendor that impulses with organic emotions, lies an unique journey waiting to be embarked upon. Penned by a virtuoso wordsmith, this interesting opus courses viewers on a psychological odyssey, gently revealing the latent possible and profound affect embedded within the complicated web of language. Within the heart-wrenching expanse with this evocative examination, we shall embark upon an introspective exploration of the book is key themes, dissect its charming writing fashion, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

https://crm.avenza.com/results/Resources/Documents/olympus_e_410_user_manual.pdf

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