



Name: _____

Date: _____

Student Exploration: Roller Coaster Physics**Activity C:**
Breaking the egg

Get the Gizmo ready:

- Click **Reset**.
- Check that the **Coefficient of friction** is 0.00.

Introduction: As the car rolls down a hill, it speeds up, gaining kinetic energy. The car also gains **momentum**. The magnitude of an object's momentum (p) can be found by multiplying the mass and speed ($p = mv$).

Question: What determines whether the car will break the egg?

- Form hypothesis:** Which factor(s) do you think determine whether the car breaks the egg?
 - The mass of the car only
 - The speed of the car only
 - The momentum of the car
 - The kinetic energy of the car
- Collect data:** Use the Gizmo to find the *minimum* hill height at which each car breaks the egg. In the table below, fill in the hill height (in centimeters and meters), and the speed of the car (in cm/s and m/s). Leave the last two columns blank for now.

Car mass (kg)	Height (cm)	Height (m)	Speed (cm/s)	Speed (m/s)	Momentum (kg·m/s)	Kinetic energy (J)
0.035 kg	73	.73	375.9	3.759		
0.050 kg	51	.51	316.3	3.163		
0.100 kg	26	.26	225.9	2.259		

- Analyze:** Using the equations $p = mv$ and $K = \frac{1}{2}mv^2$, calculate the momentum and kinetic energy of each car. Remember to use the kg and m/s values for each calculation. Fill in the last two columns of the table.

- Does the car's mass alone determine whether the egg breaks? _____ **No** _____
- Does the car's speed alone determine whether the egg breaks? _____ **No** _____
- Does the car's momentum determine whether the egg breaks? _____ **Yes** _____
- Does the car's kinetic energy determine whether the egg breaks? _____ **Yes** _____



Roller Coaster Physics Gizmo Answer Sheet

Marcia L. Tate

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

Roller Coaster Physics Gizmo Answer Sheet:

Unveiling the Magic of Words: A Overview of "**Roller Coaster Physics Gizmo Answer Sheet**"

In a global defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their power to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Roller Coaster Physics Gizmo Answer Sheet**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound affect the souls of its readers.

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