



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

**Yijin Wang**

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

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