

**Activity B:**  
**Energy on a roller coaster**

**Get the Gizmo ready:**

- Click **Reset**. Select the 50-g car.
- Check that the **Coefficient of friction** is 0.00.
- Set **MB 1** to 100 cm, and **MB 2** and **3** to 0 cm.



**Question:** How does energy change on a moving roller coaster?

1. **Observe:** Turn on **Show graph** and select **E vs t** to see a graph of energy (*E*) versus time. Click **Play** and observe the graph as the car goes down the track.

Does the total energy of the car change as it goes down the hill? yes, it doesn't

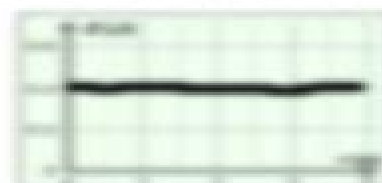
2. **Experiment:** The **gravitational potential energy** (*U*) of a car describes its energy of position. Click **Reset**. Set **MB 2** to 60 cm. Select the **U vs t** graph, and click **Play**.

- A. What happens to potential energy as the car goes down the hill? it goes down
- B. What happens to potential energy as the car goes up the hill? it goes up

3. **Experiment:** The **kinetic energy** (*K*) of a car describes its energy of motion. Click **Reset**. Select the **K vs t** (kinetic energy vs. time) graph, and click **Play**.

- A. What happens to kinetic energy as the car goes down the hill? it goes up
- B. What happens to kinetic energy as the car goes up the hill? it goes down

4. **Compare:** Click **Reset**. Set **MB 1** to 60 cm, **MB 2** to 60 cm, and **MB 3** to 70 cm. Be sure the 50-g toy car is selected, and press **Play**. Sketch the **U vs t**, **K vs t**, and **E vs t** graphs below.



5. **Draw conclusions:** How are potential energy, kinetic energy, and total energy related?  
when potential goes up kinetic goes down

(Activity B continued on next page)

# Roller Coaster Gizmo Answer Key

**Jicheng Xie**

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

## **Roller Coaster Gizmo Answer Key:**

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