

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

Jianjun Gao

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 Answer Key:

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

In some sort of 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 truly awe-inspiring. Enter the realm of "**Roller Coaster Gizmo Answer Key**," a mesmerizing literary masterpiece penned by way of 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 in to the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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