

**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 HSB 1 to 100 cm, and HSB 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 HSB 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 HSB 1 to 60 cm, HSB 2 to 60 cm, and HSB 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 Physics Answer Guide

**Tobias Bleicker**

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.

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