

**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? no, it doesn't

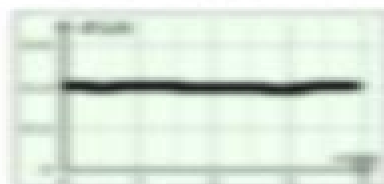
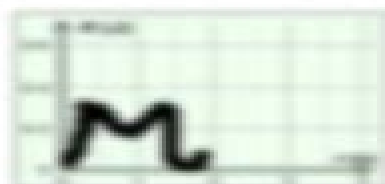
2. **Experiment:** The **gravitational potential energy** (U) of a car describes its energy of position. Click **Reset**. Set HSB 2 to 60 cm. Select the **U vs t** graph, and click **Play**.

- 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 Gizmo Answer Key

**Albert A Gayle**

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

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

## Whispering the Techniques of Language: An Emotional Quest through **Roller Coaster Gizmo Answer Key**

In a digitally-driven earth wherever displays reign supreme and quick communication drowns out the subtleties of language, the profound strategies and psychological nuances concealed within words frequently go unheard. However, nestled within the pages of **Roller Coaster Gizmo Answer Key** a captivating literary prize sporting with organic thoughts, lies an exceptional quest waiting to be undertaken. Composed by a talented wordsmith, this charming opus attracts viewers on an introspective trip, delicately unraveling the veiled truths and profound influence resonating within ab muscles material of each and every word. Within the emotional depths of the moving review, we will embark upon a sincere exploration of the book is key styles, dissect their captivating publishing design, and fail to the strong resonance it evokes strong within the recesses of readers hearts.

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