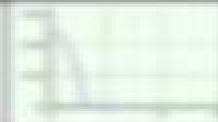


Activity B:
Energy on a roller coaster

Get the Gizmo ready:

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



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

1. **Display:** 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 decreases.

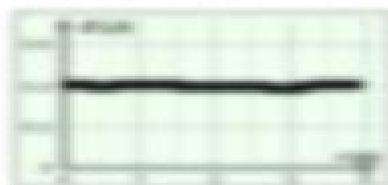
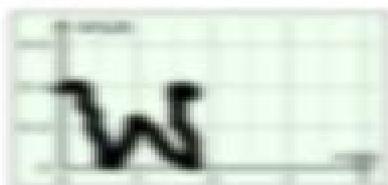
2. **Display:** The **gravitational potential energy** (U) of a car describes its energy of position. Click **Reset**. Set Hill 2 to 60 cm. Select the **U vs t** graph, and click **Play**.

- 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. **Display:** 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. **Display:** Click **Reset**. Set Hill 1 to 60 cm, Hill 2 to 60 cm, and Hill 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)



Explore Learning Roller Coaster Physics Answer Key

F Rizvi



Explore Learning Roller Coaster Physics Answer Key:

Explore Learning Roller Coaster Physics Answer Key Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the power of words has be much more evident than ever. They have the ability to inspire, provoke, and ignite change. Such is the essence of the book **Explore Learning Roller Coaster Physics Answer Key**, a literary masterpiece that delves deep into the significance of words and their impact on our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall impact on readers.

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