

Activity 8:
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.

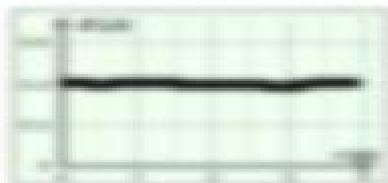
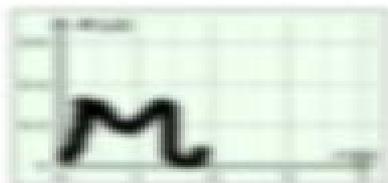
2. **Experiment:** The **gravitational potential energy** (U) of a car describes its energy of position. Click **Reset**. Set Hill 2 to 60 cm. Select the **U vs t** graph, and click **Play**.

- 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. **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. **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 8 continued on next page)



Explore Learning Roller Coaster Physics Answer Key

**American Association of Physics
Teachers**



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