

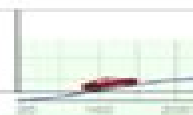
4. What factors seem to determine whether the car will break the egg? The speed of the car after it passes the first hill and the weight of the car. \_\_\_\_\_

#### Activity A:

#### Roller coaster speed

#### Get the Gizmo ready:

- Click **Reset**.
- Select the 35-g toy car.



**Question:** What factors determine the speed of a roller coaster?

1. **Observe:** Set **Hill 1** to 100 cm, **Hill 2** to 0 cm, and **Hill 3** to 0 cm. Be sure the **Coefficient of friction** is set to 0.00. (This means that there is no **friction**, or resistance to motion.)

A. Click **Play**. What is the final speed of the toy car? 442.9cm/s. \_\_\_\_\_

B. Try the other cars. Does the mass of the car affect its final speed? No. \_\_\_\_\_

2. **Collect data:** Find the final speed of a toy car in each situation. Leave the last column blank.

Hill 1	Hill 2	Hill 3	Final speed	Total height lost
40 cm	0 cm	0 cm	280.1cm/s	40 cm
40 cm	30 cm	0 cm	280.1cm/s	40 cm
60 cm	50 cm	20 cm	280.1cm/s	40 cm
60 cm	0 cm	0 cm	343.1cm/s	60 cm
60 cm	45 cm	0 cm	343.1cm/s	60 cm
90 cm	75 cm	30 cm	343.1cm/s	60 cm

3. **Analyze:** Look at the data carefully. Notice that it is organized into two sets of three trials.

A. What did each set of trials have in common? The final speed of the car in tests are the same. \_\_\_\_\_

B. Did hill 2 have any effect on the final speed? No. \_\_\_\_\_

C. Label the last column of the table **Total height lost**. Fill in this column by subtracting the height of hill 3 from the height of hill 1.

# Roller Coaster Physics Answers Explore Learning

**Judd E. Hollander**



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