

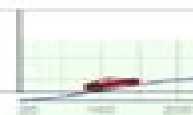
4. What factors seem to determine whether the car will break the egg? The speed of the car after it passes the first hill and the weight of the car. \_\_\_\_\_

#### 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

**Carmella Van Vleet**



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