

Exploring Motion: Gaining and Losing Energy

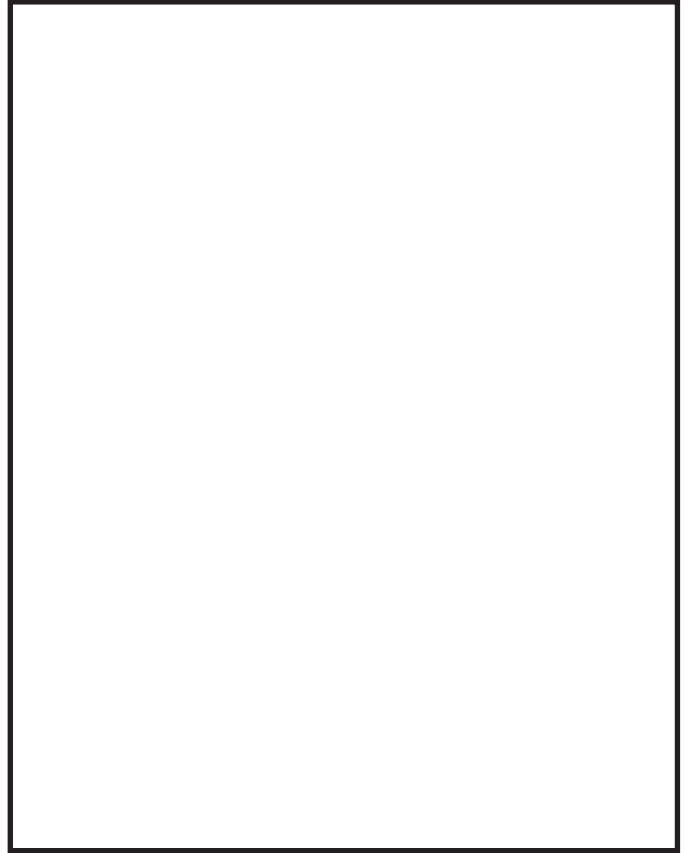
When a marble rolls downhill, it gains energy and moves faster. When it goes uphill, it uses energy and slows down. Today we will see if a marble will roll as far uphill as it does down hill.

What I think will happen: In the box below, draw a picture of your U-Shaped rollway. With a GREEN marker, draw where you think your marble will go when you drop it from a HIGH point on your rollway. With a RED marker, draw where you think the marble will go when you drop it from a LOW point on your rollway. Be sure to mark your starting point and ending point.

Drawing of My Prediction



Drawing of My Results



Try It! Now try it. Drop your marble from 3 different starting places. On your marble rollway, mark the point where you start your marble and where it stops rolling uphill in a different color for each of your 3 tries. (such as green for the first, red for the second, and blue for the third).

Record Your Data: In the second box, draw what actually happened using the colored markers.

