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Lab 13: Conservation of Energy for a Tennis Ball

Formicelli Physics

Conservation of Energy for a Tennis Ball**Purpose:****Discussion:**

The law of conservation of energy states that energy can neither be created nor destroyed. This law is difficult to understand because it doesn't appear to be true at first glance. To the average person, energy seems to be lost. Take dropping a tennis ball for example. If energy isn't lost then the height from which a person drops a tennis ball should be the height to which it bounces back up; however we all know that this is not the case. Where then does that energy go? The energy that appears to be "lost" is actually converted into internal energy (heat mostly) because of the presence of dissipative forces. In this laboratory exercise you will calculate the energy converted to heat energy when the tennis ball bounces on the floor from a height of one meter.

Reminders:

$$\Delta PE = mgh$$

PE = potential energy

m = mass

g = acceleration due to gravity

$$g = 9.81 \text{ m/s}^2$$

h = height

$$KE = \frac{1}{2} m v^2$$

KE = kinetic energy

m = mass

v = velocity

$$E_i = PE + KE + Q$$

 E_i = total energy

PE = potential energy

KE = kinetic energy

Q = heat energy

What is the percentage of energy converted to internal energy after one bounce for a tennis ball?

Prediction:

Materials: tennis ball, meter stick, digital scale, cell phone (recorder)

Procedure:

1.1 Using the digital scale the mass of the tennis ball. Remember to zero the balance.

Record the mass of the tennis ball in kilograms in the Data Table.

1.2 Use a meter stick to measure a height of one meter. Hold the tennis ball so that the

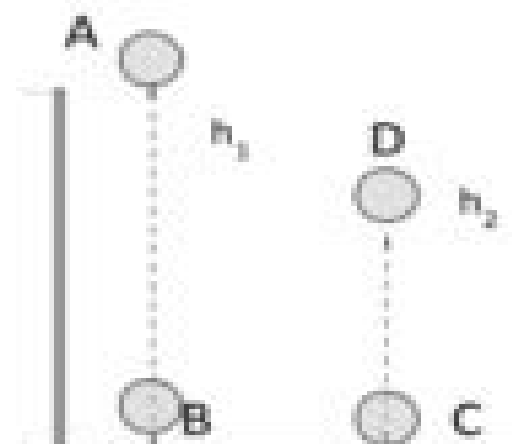
bottom of the ball is one meter above the ground. Drop the tennis ball and record its travel using the recorder on your cell phone. From the video, determine the max height the ball reached after bouncing off the ground. Record this height in meters on the Data Table.

1.3 Repeat step 1.2 four more times.

Data Analysis

2.1 Calculate the mean height for h_1 and record your answer in the Data Table.

2.2 Follow the calculation steps to determine the average amount of energy lost for the tennis ball.



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