

Lab: Bouncing Balls



Question: Is the bounce height of a ball changed based on the drop height?

Purpose: Formulate your own purpose based upon the Question.

Materials: What do you need?

Procedure: What will you do to test the question and answer your purpose?

Observations: Decide how you will observe and record the data obtained through your experiment.

Analysis: What can you use to visually display your data so that you can interpret the results easily?

Discussion: Explain what happened in the experiment by answer questions in **FULL SENTENCES**.

1. Were your measurements that you took during the lab precise? Were they accurate? What's the difference? Describe how your measurements were or were not precise or accurate. (1/4 marks)
2. Identify the dependent and independent variables in this lab as well as 3 control variables. (MC /2 marks)
3. What happens to the bounce height as the drop height increases? What relationship does this suggest? (Look at your graph.) (MC/2 marks)
4. Using your data, calculate the bounce height for a 3-metre drop. (MC/2 marks)

Conclusion: Briefly summarize the experiment by looking at the purpose and stating what was discovered in 1-2 full sentences.

Evaluation:

Communication	
Format -set up of the report	/2
Purpose - clear statement	/1
Graph	/5
Total	/16

Inquiry	
Hypothesis	/2
Question #1	/4
Total	/6

Making Connections	
Question #2	/2
Question #3	/4
Question #4	/2
Total	/8