

Name: _____ Date: _____ Per: _____

Lab: Bouncing into Inquiry

Question/Problem: Will a ball bounce higher when dropped on a hard tile floor or on a soft carpet floor?

Hypothesis (If...then...reason...):

Demonstration: Teacher will alternate dropping the tennis ball on the tile floor and carpet floor a total of 3 times each recording the height of the first bounce in each trial. Repeat the procedure using a golf ball.

Materials:

- 1 tennis ball and 1 golf ball
- Tile floor
- Carpet floor

Procedure: (Write a step by step set of instructions so that anyone can perform this activity correctly)

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____

Data/Analysis:

Trial	Tennis Ball Tile cm.	Tennis Ball Carpet cm.	Golf Ball Tile cm.	Golf Ball Carpet cm.
1				
2				
3				
Average				

Conclusion (use Claim, Evidence, Reasoning format)

Claim (Answer to the Question): _____

Evidence (Data that supports your Claim): _____

Reason (Explain the Evidence supports the Claim): _____

How could you change this experiment to make it more accurate (were there errors that could be fixed)? _____

Graph: Put your data into a bar graph below.

Graphing Components

1. Label the x-axis (what you changed) and the y-axis (what you are measuring including units)
2. Start your y-axis at zero and numbers increase in equal amounts
3. Title your graph

