

Name: \_\_\_\_\_

Date: \_\_\_\_\_

## Bouncing Balls Experiment 2

Purpose (What do you want to find out?):

To compare how high a ball will bounce on three different surfaces.

Hypothesis (What do you think will happen?):

I think that \_\_\_\_\_ will make the ball bounce the highest and  
\_\_\_\_\_ will make the ball bounce the lowest.

Equipment (What do you need to do the experiment?):

- tape                      - gym mat  
- meter stick              - cardboard  
- tennis ball

Procedure (What did you do?):

- 1) Tape the meter stick to the wall.
- 2) Drop a ball from 100 cm.
- 3) Measure the bounce height.
- 4) Put the gym mat on the floor and repeat.
- 5) Put the cardboard on the floor and repeat.

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Observations (What happened?):

Ball	Height of Drop (cm)	Height of Bounce (cm)	
		Prediction	Result
Floor			
Gym Mat			
Cardboard			

Example:

The ball made a different noise on each surface.

It was hard to read some of the bounce heights.

...etc

Discussion (What did you learn?):

Example:

I thought the ball would bounce the highest on the floor, and I was correct. The gym mat and the cardboard stopped the ball from bouncing as high.

...etc