

WHAT GOES DOWN MUST COME UP

(ONLY NOT QUITE AS FAR)

QUESTION: How does the height from which a ball is dropped affect the height of the first bounce? Can we use the initial height to predict the bounce height?

MATERIALS:

- One ball for each group
- Stopwatches
- Tape measures taped to the wall to measure height

EXPERIMENTAL DESIGN:

A ball will be dropped repeatedly from different heights and the height of the **first** bounce will be measured. Describe in detail the design of your experiment and how you will randomize your trials. Explain possible sources of variability in your data and efforts you will make to reduce effects of possible confounding variables. Describe the scope of inference for your results.

DATA FOR BALL BOUNCE

TRIAL	HEIGHT:	HEIGHT:	HEIGHT:	HEIGHT:
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				

