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Name:	Date:	Period:

## Measurement Lab

### Pre-Lab

1. What can we measure on the different balls? Make a list of as many things as possible.

2. Identify each of the following (there may be more than one):

Independent Variables	Dependent Variables	Control Variables

# Purpose

Write down one sentence explaining the purpose of the lab that includes all the independent and dependent variable.

## Procedure

Materials:

- $\bullet\,$  two different balls
- one meter stick

When you're ready to start the experiment:

- 1. Drop the ball
- 2. Stand back and watch how high the ball bounces
- 3. Record the Data.

#### Data

#### Experiment #1

Constant(s):

Drop Height	Bounce Height (cm)			
(cm)	Trial #1	Trial #2	Trial #3	Average

#### Experiment #2

Constant(s): \_\_\_\_\_

Drop Height (cm)	Bounce Height (cm)			
(cm)	Trial #1	Trial #2	Trial #3	Average

# Graphs

Go to www.desmos.com/calculator to graph your data.

- a) Start by making a table by clicking the "+" icon at the top left. You will need to create two separate tables.
- b) Make sure to label the axes using the wrench icon at the right.
- c) Zoom out so that you can see the whole graph and so that it fills the page. You can do this using the "Zoom Fit" option , but be careful that your fit does not cut off one of the graphs
- d) Create best fit lines for each graph using the "Linear Regression" tool
- e) Copy a link to your graph using the export button and clicking "Share a Snapshot". Paste this link on the appropriate place in Schoology.

a) Create a table	
+ + ~ ~	b) Axis Labels
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c) Zoom Fit	X-Axis
( <del>1)</del> 4 7.9	-1.14959 ≤ A ≤ 4.09409 56ep.  ✓ Y-Axis
2	▶ More Options
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	Radians Degrees