



Name _____

Resting Bodies

Question: How does the amount of mass of a body at rest affect its tendency to remain at rest?

Hypothesis:

Materials:

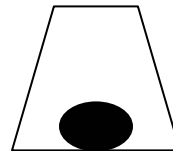
2 Meter sticks	String	Rubber bands
3 pennies	Wooden block	Paper cup
Marble		

Procedure:

1. Use the string to make “guard rails” down the length of the meter stick. Fasten the strings to the meter stick with the rubber bands.



2. Make a ramp from the wooden block and the meter stick.
3. Cut a small hole in the paper cup.



4. Put the cup at the end of the meter stick ramp. Face the hole in the cup so that the marble can roll down the ramp and into the cup.
5. Put the marble at the top of the meter stick ramp and let it roll down the ramp and into the cup.
6. Use the second meter stick to measure how far the cup moved. Record your data.
7. Repeat for a total of 5 trials.
8. Tape 1 penny to the top of the cup. Repeat steps 5 – 7.
9. Tape a second penny to the cup. Repeat steps 5 – 7.
10. Tape the third penny to the top of the cup. Repeat steps 5 – 7.

Data:

Cup Movement Distance (cm)						
Number of pennies	Trial 1	Trial 2	Trial 3	Trial 4	Trial 5	Average
0						
1						
2						
3						

Data Analysis:

Make a bar graph to compare the average distance the cup moved. Remember to plot the independent variable on the X-axis and the dependent variable on the Y-axis.

Title _____

