

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

## Preconditioning Balloons Data Analysis Worksheet

On a separate sheet of paper to turn in, answer the following questions.  
Remember to include labels and units on all graphs.

1. Create a scatter plot in Excel of the balloon preconditioning data you collected.  
Plot force (y-axis) vs. cycle number (x-axis).
2. Answer the following questions about your graph and data:
  - a. Did the force to displace the balloon change with repeated cycles?  
If so, how did it change (increase or decrease) and why?
  - b. What is the percent difference between the force for cycle 1 and the force for cycle 10?
  - c. At what cycle did the balloon reach equilibrium?  
How can you use this information next time you need to inflate a balloon?