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?