Name_____   Date_____

LAB 3B: Confound it all!
Response Sheet

Directions: Record your responses to the **bold** lab questions in the spaces provided.

Finding data in new places

Importing our data

Our new data

About the data

Cleaning your data

Analyzing our data

- **Write down a reason the reseachers couldn't use an experiment to test the effects of smoking on children's lungs.**

- **Do you think that a person's age affects their lung capacity? Make a sketch of what you think a scatterplot of the two variables would look like and explain.**

    Use the lungs data to create an xyplot of age and lung_cap.

- **Interpret the plot and describe why the relationship between the two variables makes sense.**

Name_____   Date_____

LAB 3B: Confound it all!
Response Sheet

Smoking and lung capacity

Make a plot that can be used to answer the statistical investigative question: *Do people who smoke tend to have lower lung capacity than those who do not smoke?*

- **Use your plot to answer the question**.

- **Were you surprised by the answer? Why?**

- **Can you suggest a possible confounding factor that might be affecting the result?**

Let's compare

- **How does the relationship between smoking and lung capacity change as we increase the age from 13 to 15 to 17?**

Sum it up!

- **Does smoking affect lung capacity? If so, how?**