Name _____Period_____

Study Guide Scientific Method Week 3

Required Homework **Parent Signature** _____

Write out a Bean Experiment to grow the tallest beans in 7 days in your Science Notebook. Use proper Scientific Method Lab Report format, **due Wednesday**.

2. Complete the Graphing Worksheet, **due Wednesday**.

3. Study for Thursday's quiz. You must be able to fill out a lab report and answer questions like the ones on the Simpson's Graphing worksheet.

Choice: You must choose one assignment, due Next Wednesday, October 7th.

1. Create an illustrated graphing instruction sheet.

2. Go to the Ammonia Factory Website and complete all of the activities. You must get the worksheet from Mrs. Norling's website.

3. Write a **complete** Scientific Method Lab Report for your own experiment. This assignment is worth double points if done correctly!

Define these words!
Manipulate variable:
Responding variable:
Controls:

Scientific Method Lab Report Format

1. **Title:** The title should give the reader a clear idea of what you will be testing.
2. **Purpose**: The question we are trying to answer, (you must state what you will measure or observe).
3. **Hypothesis**: Your best prediction, written as an "if-then statement". You must also explain why you believe your prediction is true.
4. **Materials**: Write a list of all of the things you will need for the experiment.
5. **Procedure**: Write the manipulated variable. Write the responding variables that you will measure. List all of the things you will control. Then write a step-by-step list of directions to perform your experiment.
6. **Data**: Record all of your observations and measurements in a table, then create a graph if possible.
7. **Results**: Explain what the data means as though the person reading it can not see your data at all. You must describe any patterns you see using the actual numbers from your data.
8. **Conclusion**: State your hypothesis. State whether you accept or reject your hypothesis. EXPLAIN why you accepted or rejected your hypothesis using data from the lab. Finally, explain what you would do differently next time.