Name _____

Lab Design (Criterion B) Make Up Assignment

Instructions: You can complete this assignment if you have missed class or want to try to improve in the lab design category. Your goal is to complete each part of this assignment after reading the identified problem.

Problem: You have decided that you want to start a garden at home. However, you are not sure if your soil is going to be good enough for the plants that you want to grow. Soil has many different properties that could impact plant growth, however, you only need to focus on different types of soil. You decide to buy 3 different bags of soil from the store to determine which one is best for your plants.







You now need to design an experiment to figure out which soil is the best. You will NOT actually do the experiment, you just need to explain HOW it would be done.

1. Materials - What do you think you will need to run this experiment?

2. Question - Write a question that says what you are going to test about your plants.
    a. For example, if I wanted to test new cat foods with my cat, I might ask: Which cat food has the most eaten when providing 3 different foods in 3 bowls to my cat?

3. Hypothesis - What do you think will happen in your experiment? This should be a guess about your question.

4. Procedure - How will you run your experiment? Be very specific. You should have at least 6 to 8 steps written down. Be sure to use complete sentences and exact amounts for things like soil, water, measurements, and time. Feel free to ALSO draw out the design of your experiment.

5. Data Collection - Draw a data table for the information you would collect. The table will be blank, but you should have clear labels.