***You are receiving this assignment because you failed to write a procedure. Complete this paper. When finish, set up your experiment unless it has already been done by your partner.***

**MY SEED SPROUT EXPERIMENT**

**1) My question of investigation: This should be in your notebook on page 8.**

*First choose your independent variable. Are you going to test light vs. dark, cold vs. room temperature, crowded seeds vs. uncrowded seeds, or are you going to change the amount of water in each cup?*

2) My independent variable will be \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

***For everything below, you MUST use complete, clear sentences.***

3) Label to 250 milliliter plastic cups. Explain how to label your cups below.

4) Place 30 mL of gravel in the bottom of both cups. Add soil to the 100 mL mark. Then pour 100 mL of water over the soil.

5) In the space below, explain what kind of seeds to use, how many seeds to place in each cup, and how deep to bury the seeds.

6) In the space below, explain where to place each cup. (under the grow lamp, in the refrigerator, in the dark cupboard)

7) In the space below, explain how to water the seeds in each cup. (Decide if you want to spray the cup with a mister each school day or every Tuesday and Thursday.)

8) In the space below, describe IN DETAIL how to measure the **dependent variable** at the end of the experiment when the first true leaves appear on the plant.  You will need to decide between the following types of QUANTITATIVE DATA:

 *Count the ratio of seeds that sprout to seeds that don't sprout.*

 *or Remove the sprouts from one cup and measure the height of each individual plant with a ruler in millimeters. Then do the next cup.*

 *or Remove all the sprouts from the soil from one cup, use an electronic balance to find the mass in grams of all the sprouts together, and then do the next cup.*

You may also want to record observations about QUALITATIVE DATA such as the color and health of the sprouts.

9) On the back of this paper, create a data table where you can record the measurements that you will make after the end of the experiment. *See examples on the board*