Name _____ Period ____ Date _____

What Do Plants Need To Grow? – Planning Sheet

What Will We Do?

We will design and set up a plant investigation to test _____

Procedure

Discuss Questions 1– 6 to help set up your plant investigation.

1. What question will you be able to answer with this experiment?

2. What variable are you changing in your plant investigation? What are the conditions?

3. What variable(s) are you keeping the same in your plant investigation?

4. Predict: How do you think the variable in Question 2 will affect the growth of the seeds in your experiment?

5. Completely describe the setup for your experiment. Include the number of cups of plants you will use in the control and experimental groups and how many seeds you will plant in each cup (sample size). Also include who will water the plants and how often.

6. Completely describe how you will collect data. Include the type of data you will collect and how often you will collect it.

7. Write your first journal entry for your plant experiment including all of the information that you discussed in Questions 1– 6. You may use the "Driving Question Notes" section as your journal.

8. In your journal, draw the table (or tables) you will use to organize the data you will collect from the plants. You can look back at Activity Sheet 1.1 or Activity Sheet 1.2 for examples of tables. Remember to label the columns so that anyone can read the table.

Making Sense

1. Imagine that all of your plants accidentally die during your experiment. What will you be able to learn from your experiment?

2. You are using many seeds in your investigation. Why is using many seeds important?

3. Why is it important to have a control group in the experiment?

4. Why can you not change more than one variable in your experiment?