

Name: _____ Period _____ Date: _____

Classwork- Applying the Scientific Method

You are given the following scenario: A farmer tells you that radish plants grown in lots of sunlight grow taller than those grown in the dark. You're not sure if this is true, so you decide to design an experiment to test it.

1. What is your hypothesis? Circle the best answer.

If I put a plant in sunlight, then it will grow *taller/shorter* than the plants grown with NO sunlight.

2. What are the variables in your experiment?

3. What is the control in your experiment?

4. What data will you collect?

5. What will your experimental procedure be?

6. What materials will you need?

You are given the following scenario: You have just been given a bouquet of cut flowers. You remember once seeing a gardener put some sugar into the water in a vase before putting the flowers in. You wonder if the gardener did that so the flowers would stay fresh longer.

1. Write a hypothesis for an experiment you could perform to answer your question.

If I _____ then _____.

2. What are the variables in your experiment?

3. What is the control in your experiment?

4. What data will you collect?

5. What will your experimental procedure be?

6. What materials will you need?