

Name _____

Requirements of Science - CONPTT

	Plant A	Plant B	Plant C
Week 1	14 cm	8 cm	17 cm
Week 2	17cm	11 cm	20 cm
Week 3	21 cm	15 cm	23 cm
Week 4	23 cm	17 cm	24 cm
Week 5	24 cm	18 cm	25 cm
Week 6	25 cm	19 cm	25 cm

1. The following table shows the growth of 3 different rose bushes over 6 weeks. The plants were all given the same amount of light and water. Are these results **consistent**? Why or why not?

2. Which of these is not an **observation**?

- a. Matt nervously tried a bite of his mom's homemade meatloaf.
- b. Amy stuck her hand in the shower to see if it was warm enough yet.
- c. Elana could tell that the cookies had burned by the smoky smell in the air.
- d. Kyle dreamt that a large spider wearing roller skates chased him down the third floor hallway.

3. Give an example of a **natural** cause for a **natural** event.

_____ is caused by _____

4. Give an example of an ***unnatural*** cause that has been used to explain a ***natural*** event.

5. Which requirement of science allows us to make ***predictions***? Explain.

6. Explain what it means when we say science is ***tentative***. Give an example in your answer.

7. Write a ***prediction*** for the following statement:

What is the effect of temperature on the growth of soy beans?

I predict that _____ will cause _____

because _____

8. Now, create a t-chart for a controlled experiment to ***test*** this problem statement.

9. (Bonus question) What is the name of the probe that is currently traveling to Pluto?