Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Requirements of Science – CONPTT pretest**

|  |  |  |  |
| --- | --- | --- | --- |
|  | 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***?

1. Matt nervously tried a bite of his mom’s homemade meatloaf.
2. Amy stuck her hand in the shower to see if it was warm enough yet.
3. Elana could tell that the cookies had burned by the smoky smell in the air.
4. Kyle’s shadow exists in another dimension called Ooo.

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 classical music on the test scores of high school students?*

I predict that \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ will cause \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

because\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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

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