Scientific Method Study Guide (ANSWER KEY)

Using the picture below, create observations, inferences, and predictions.

Observations are things you notice with your senses.

Inferences are conclusions you draw based on your observations.

Predictions are what you think will happen next.

Observations:

Inferences:

Predictions:

Circle the correct answer:

The control is _________________.

a. what the test group is compared to
b. what remains the same between test groups
c. the test group
The independent variable is ________________.

   d. the factor that you change
e. the factor that changed because of another factor
f. an educated guess about what will happen

The dependent variable is ________________.

   g. the factor that you change
   h. the factor that changed because of another factor
   i. an educated guess about what will happen

The constant is ________________.

   j. what the test group is compared to
   k. what remains the same between test groups
   l. the test group

Qualitative observations are ________________.

   m. words only
   n. numbers only
   o. words and numbers

Quantitative observations are ________________.

   p. words only
   q. numbers only
   r. words and numbers

Select the statement that correctly states a hypothesis.

   s. If a plant is fertilized, then it will grow more.
   t. Fertilized plants grow more.
   u. Neither are correct.

Study Hard! Your TEST is on: 

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