Note Taking Guide: Episode 101 **Name**_____

Scientific Method

A _____ _____ of _____
_____.

Steps of the Scientific Method

a. Making _____ that lead to a _____.
b. Forming a _____ to answer the _____.
c. Testing the _____ by _____.
d. Making a _____ based on the results of the _____.

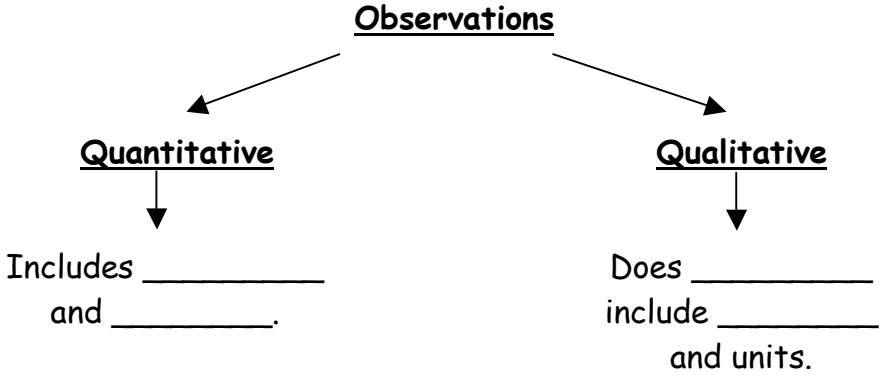
Definitions:

Observing: Use of the _____ and _____ in the lab to _____ _____.

Conclusion: A statement based on _____ and prior _____.

Observations Vs. Conclusions

1. _____ 2. _____ 3. _____ 4. _____
5. _____ 6. _____ 7. _____ 8. _____



Qualitative Vs. Quantitative

1. _____ 2. _____ 3. _____ 4. _____

5. _____ 6. _____ 7. _____ 8. _____

Hypothesis: an _____ _____.

A good hypothesis:

1. _____ an _____
2. can be _____
3. will _____ an _____

Practice forming a hypothesis:

1. What is the _____ of the _____ _____?

2. As the candle _____, it gets _____. Where does the _____ go?

Experiment:

a. is _____ to _____ a _____.
b. involves _____.
c. is performed under _____ _____.

Variables: factors that can be _____.

Control: a _____ that is held _____.

In a good experiment:

a. only _____ _____ are allowed to _____.
b. the _____ (or _____) _____ is changed by the _____.
c. the _____ (or _____) _____ changes as a result of the _____.
d. all other _____ are _____ because they are held _____.

The Chemistry Quiz

1. _____ 2. _____ 3. _____ 4. _____ 5. _____