Notes: What is Science?

**Scientific Method:**

•The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is the process scientist use to determine the truth. There are four steps.

Steps:

1.

2.

3.

4.

**Observation**:

•Making an \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_- or seeing a problem. Based on this you may make an inference about your observation

Observation:

Inference:

**Hypothesis**:

•A\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, possible solution. Your \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ may lead to your hypothesis.

**Experiment:**

A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ method of testing a question. Only ONE \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is changed at a time. All other Variables should be kept unchanged.

**Conclusion:**

•Was your \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ correct? Does it lead to further inquiry?

**Independent Variable:**

•Manipulated variable that is deliberately \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

**Dependent Variable**: Responding variable that is observed \_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to the Independent variable

**Control**: The experimental component in which no \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ are applied. Used as a source of comparison.

**Constants**: Experimental components which must remain the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. They show if the experimental variable affected the outcome