

Name: _____

Date: _____

Experimental Design

REVIEW:

- Scientific Method: _____

- SIX steps: _____

EXPERIMENT: _____

- primary purpose: _____

- peer review by the science community: a scientist's work isn't generally _____

unless he follows the standards set by other scientists around the world.

Basic Rules: **Experimental Design** (write each rule as it is written in the video and then use your own words to explain them and the idea that follow)

Rule #1:

Rule #2:

Rule #3:

Controlled Experiment

Independent vs. Dependent Variables

CORRELATIONAL STUDIES = UNSTRUCTURED OBSERVATIONS

- you are simply _____

EXPERIMENTAL METHODS = ~~UN~~STRUCTURED OBSERVATIONS

... that results in the _____ of variables

Variables: _____

Two types...

Dependent variable (Y): _____

Independent variable (X): _____

Same variables in two conditions....

CONTROL CONDITION: manipulation or no manipulation (circle one)

EXPERIMENTAL CONDITION: manipulation or no manipulation (circle one)

What variable do you manipulate? (he circles red text!) _____

In both conditions, we measure the _____ variable to determine if there's a difference in observed outcomes between the _____ and _____ conditions.

In this example, the graphs are different. So the conclusion is that the _____ of variable Y is _____ on variable X because as we _____ the variable X the outcome Y was _____.

