

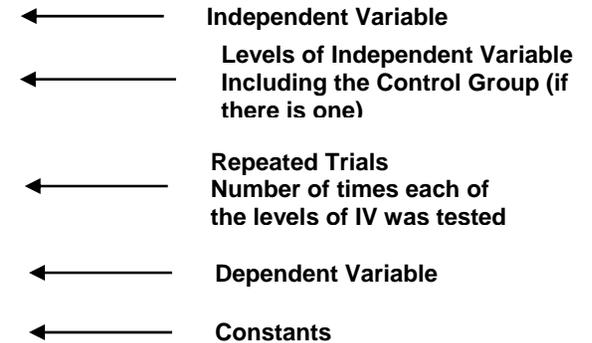
Investigation Design Diagram

Title:

Question:

Hypothesis:

IV: (aka "You Change It" or "You Choose It" variable)				



DV: (aka "You Measure It" variable)

Constants:

Definition of Terms

Independent Variable: (manipulated variable) the variable that is changed on purpose by the experimenter.

Dependent Variable: (responding variable) the factor or variable that may change as a result of changes purposely made in the independent variable.

Control Group: the part of an experiment that serves as a standard of comparison. A control is used to detect the effects of factors that should be kept constant, but which vary. The control may be a "no treatment" group or an "experimenter selected" control.

Constants: factors in an experiment that are kept the same and not allowed to change or vary.

Repeated Trials: the number of times that a level of the independent variable is tested in an experiment or the number of objects or organisms tested at each level of the independent variable

Hypothesis: a prediction of the relationship of an independent and dependent variable to be tested in an experiment; it predicts the effect that the changes purposely made in the independent variable will have on the dependent variable. It should include a "because" statement that cites scientific concepts or facts that informed the prediction.

Title: a statement describing an experiment. Titles are often written in the form, "The Effect of the Changes in the Independent Variable on the Dependent Variable."

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IV: (Independent Variable/"You Change It Variable")

DV: (Dependent Variable/"You Measure It Variable")

Constants: