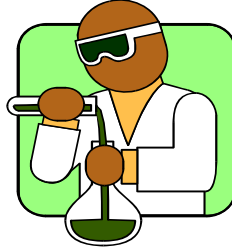


Terminology of an Experiment



Hypothesis: A prediction about how the independent variable (IV) will affect the dependent variable (DV). An *If..... Then.....* statement.

If the _____, then the _____.

(IV) (DV)

Variables: Things or factors in an experiment that change or could be changed.

- **Independent Variable (IV) or Manipulated Variable:** The variable you *change on purpose*.
- **Dependent Variable (DV) or Responding Variable:** The variable that changes *as a result* of what you changed. It is the variable that responds to the IV. It is the variable that we *measure*.

Constants (C): The things or variables in an experiment that are kept the same or “constant” – this makes the experiment fair! These things DO NOT change no matter how many times you repeat the experiment.

Control Group: The group that is the standard for comparison of experimental effects in an experiment. The group that receives no amount of the independent variable (IV). Not all experiments have controls.

Repeated Trials: The number of times you repeat the experiment. The number of times the independent variable is tested or it can be the number of objects tested. You would normally repeat the experiment 3 times.

Data/Results: Graphs, charts and or tables used to display conclusions or findings of an experiment.