

Glue Together

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Observational descriptions or data that are made using actual numerical measurements

Observational descriptions or data regarding physical qualities including color, size, shape, smell, feel, taste, and/or sound of objects

The variable which is manipulated or changed during the experiment

The variable that is the actual measured or observed outcome of the testing. What happens to this variable **DEPENDS** on how the independent variable is changed or manipulated.

One of two groups used for testing in which the setup stays the same in order to detect a change in the experimental setup, and does not include the independent variable

One of two groups used for testing comparison in which the conditions are changed from the control setup. This group contains the independent variable.

All other variables that must remain the same during the experiment and/or testing in order to validate the independent variable.

A logical conclusion based upon observation or research

The proposed answer to a question used to make a prediction. It is based on prior knowledge, research, questioning, and observation. Its validity is **THEN** tested to determine whether it can be accepted as true, or rejected as false.