

Parts of a Controlled Experiment

Name	Hypothesis	Independent Variable	Dependent Variable	Constant	Control
What does it do?	An explanation based on observed facts or an idea of how things work	What the scientist changes in each trial of the experiment	The RESULTS of what the scientist has changed	Factors that are not changed in each trial of the experiment	The standard to which the scientist compares the results of each trial
Key Word(s)	AN EDUCATED GUESS	CAUSE	EFFECT	ALWAYS THE SAME	BASELINE
How many are there in an experiment?	ONE	ONE	ONE	MANY	ONE
Example	An increase in the number of taps to a can of soda will result in a decrease in the amount of spray	The number of taps on the can	The amount of spray produced by the can	The brand of soda, temperature of soda, method for tapping, etc.	The amount of spray an untapped can produces