

# Science Experiment - Terms You Should Know

## (Bilingual Chinese with pinyin/English)

固定性变数	gùdìng xìng biàنشù	Fixed/Constant Variable (the variable that is constant throughout the experiment)
操纵性变数	cāozòng xìng biàنشù	Independent/Manipulated Variable (the independent/manipulated variable is something that the experimenter purposely changes or varies over the course of the investigation)
反应性变数	fǎnyìng xìng biàنشù	Dependent/Responding Variable (the dependent or responding variable is the component of an experiment that responds to change in response to the independent variable)
目的	mùdì	Purpose (Purpose of the experiment)
假设	jiǎshè	Hypothesis (Hypothesis is an idea or explanation that you then test through study and experimentation.)
观察	guānchá	Observation (Any data recorded during an experiment can be called an observation. Students often mix this term up with the conclusion. For observation, merely describe what you see during the experiment and don't give any conclusion or reason why)
推断	tuīduàn	Inference (A conclusion reached on the basis of evidence and reasoning)
预测	yùcè	Prediction (A prediction is a guess, sometimes based on facts or evidence, but not always)
结论	jiélùn	Conclusion (What you have learned from the experiment)