



# What are variables?

Or what changes during experiments....



# Independent Variables



- What is tested by the scientist
- What is changed by the scientist
- Also known as manipulated variables.



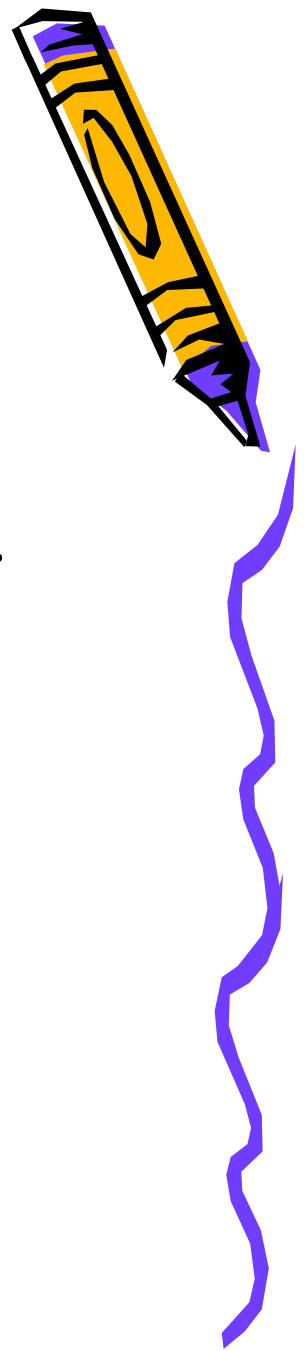
# Dependent Variable



- What is observed
- What is measured
- The effect caused by the independent variable.
- The data
- Also called responding variables



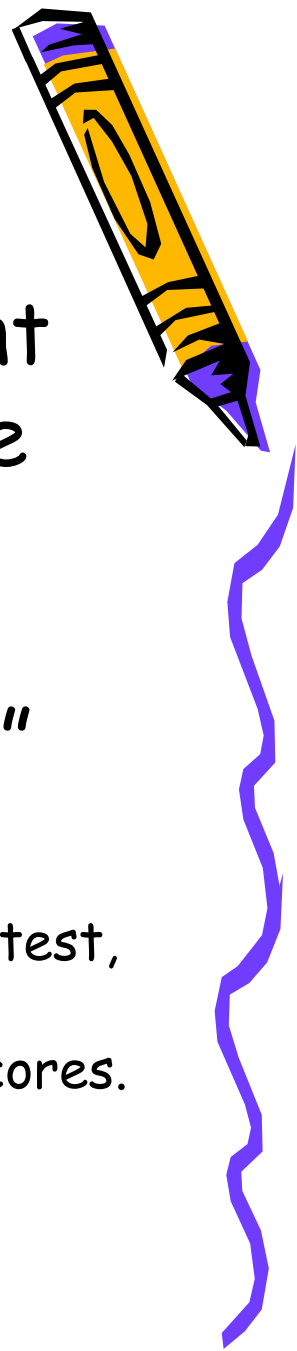
# Controlled Variables or Constants



- Things that could change but don't
- Kept constant (the same) by scientists
- These allow for a fair test.



# Controls



- Things that do NOT get treatment by the independent variable but we measure to COMPARE to what happens as a result of the independent variable. The "regular" group.
- For example, if we give special juice to people during a test, to see if their score will increase, the control would be people that do NOT get juice so we can compare the scores.

