Science Fair Variables

*Your **independent variable** is what **you** decide to change in your experiment to see how it affects your results. It is the variable that changes*

For example, if you wanted to see which detergent removed stains the best, your independent variable would be the brand of detergent.

You should only have ONE independent variable in your experiment. If you change more than one thing, you will not know which change is causing the results.

My independent variable is: _____

*Your **dependent variable** is te variable that is measured.*

Your dependent variables give you your results. You may have more than one if your dependent variable causes more than one change. (For example, another dependent variable in the plant experiment might be soil wetness.)

My dependent variable(s) is/are: _____
_____

*Your **constants** are what you are keeping the SAME throughout your experiment.*
For example, if you wanted to see which type of paper airplane flies the furthest…
- your independent variable would be paper airplane design,
- your dependent variable would be flight distance
- your constants would include where you stand when you fly the planes, who is flying the planes, plane launch angle, type of paper used to make the planes, etc.
*You will probably have **many** constants in your experiment.*

My constants are: _____
_____
_____

RUBRIC VARIABLES - 5=100

INDEPENDENT VARIABLE- "I" picked this variable to test.
DEPENDENT VARIABLE- - is what you are measuring to put on the graph.
CONSTANTS- everything that you are going to keep the same.

5= All three variables, including constants are included and correct.
4= Variables and constants are included , but all of the information correct.
3=Two portions are incorrect.
2= Three portions are incorrect
1= Missing information or I most of the information is incorrect.