

Experimental Design Sheet

Use this design sheet BEFORE you begin your lab.

Problem question:

Title: The effect of _____
(independent variable)

on _____
(dependent variable)

Independent Variable:

(manipulated variable; what YOU intentionally change and have control of)

Levels (list the different ways you are changing the independent variable – control group + experimental groups)

Identify the control group: _____
(if you have one, it's the test that isn't changed and is what you compare all your changes to)

of trials for each level: _____
(how many times will you test EACH level?)

Dependent Variable:

(responding variable; the resulting changes; what you measure/count at the end)



Glue this side into your notebook



Controlled Variables (Constants):

(what stays the same during your experiment?)

Hypothesis:

(this is your educated guess about the relationship between variables in the "If...., then...." format)

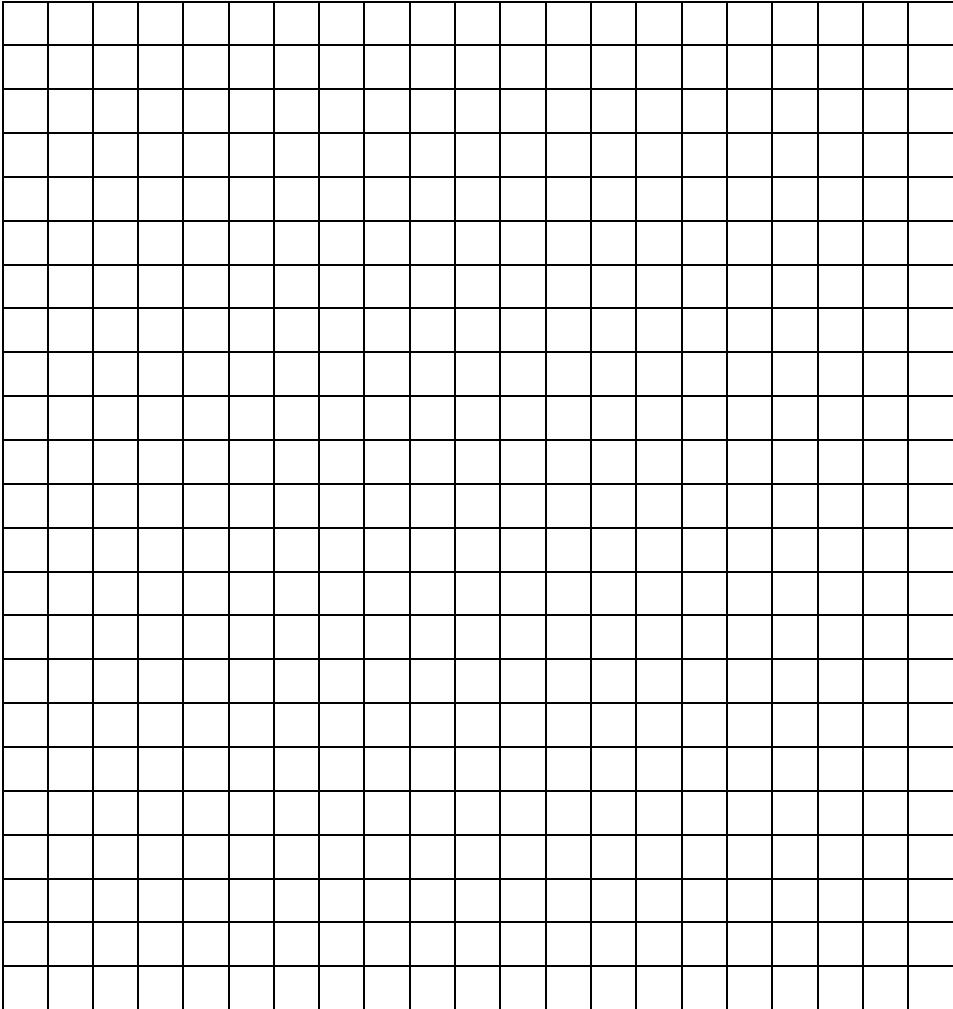
Materials:

(list supplies to find and answer to your problem question; use the levels and variables to help)

Procedures:

(list clear steps that you will follow to make sure your experiment is consistent and controlled)

Data Analysis (graphs, charts, diagrams, maps, etc.)



Conclusions

(inferences, significance, importance, and predictions about patterns found in your data after you analyze the data; SUPPORTED by evidence)

A large rectangular box with a black border, intended for writing conclusions. The box is currently empty.