

Name: _____ Per: _____ Date: _____

Experimental Design Worksheet

DIRECTIONS: Design a controlled experiment based on your question.

Problem:

Hypothesis:

Variable:

Independent Variable:

Dependent Variable:

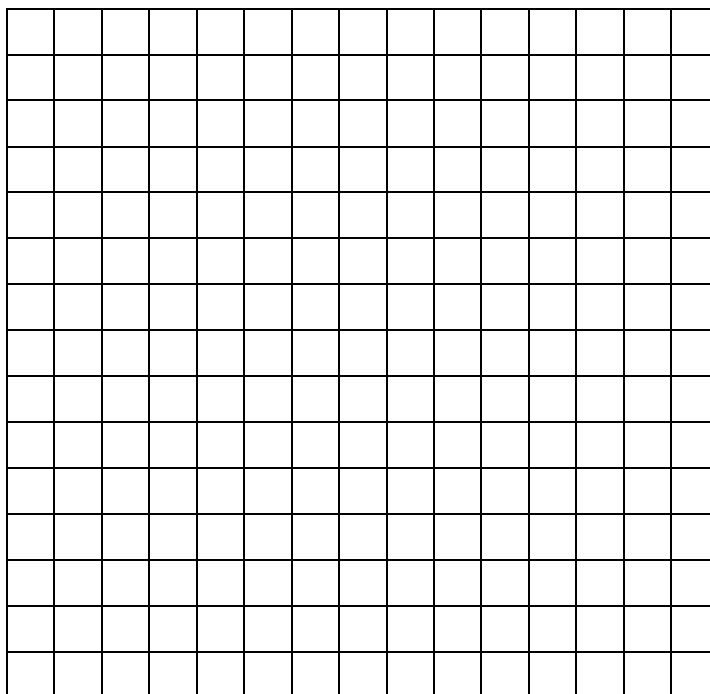
Experimental Set-up

Group A: _____	Group B: _____
• • • • • • • • • • •	• • • • • • • • • • •

Control Factors:

Data: Create a data for the above experiment.

Label the X and the Y axis on the graph below according to your data table.



- 1) What is the effect of water temperature on the respiratory rate of goldfish?
- 2) What is the effect of caffeine on urine production?
- 3) What is the effect of pH on the growth of bacteria colonies?
- 4) What is the effect of fertilizer on the average height of corn plants?
- 5) What is the effect of exercise on heart rate?
- 6) What is the effect of ultraviolet light on the growth of bacteria colonies?
- 7) What is the effect of high fiber vitamins on the production of milk in cows?
- 8) What is the effect of iron on the average mass of lettuce heads?
- 9) What is the effect of sunlight on the average height of tomato plants?
- 10) What is the effect of salt on the cell size of Elodea plants(aquatic plant)?

