

Study Guide for Scientific Method, Lab Safety, Metric Measurement, and Graphing Test

Fill in the missing word/words.

Scientific method - _____ problem-solving procedure in science

Variable - any _____ in the experiment

Hypothesis - an _____ for a scientific problem that can be tested

Control - the _____ used to compare with the outcome of a test

Write the steps of the scientific method in order.

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____

Read the problem and identify the parts of the experiment.

Gloria wanted to see if different chemicals would affect the color of cabbage juice. She put the same amount and type of cabbage juice into four test tubes. She added ten drops of chemical x into test tube 1, ten drops of chemical y into test tube 2, and ten drops of chemical z into test tube 3. She did not add any chemicals to test tube 4. She observed each of the test tubes for 20 seconds after she added the chemical and recorded her observations.

- Identify-
Constants _____
- Independent variable _____
- Dependent variable _____
- Control _____

Study your safety symbols, be able to identify them.

Study your metric notes/worksheets.

Write the abbreviation for each-

millimeter _____ milliliter _____

kilometer _____ centimeter _____

kilogram _____ milligram _____

How many mm in a cm? _____ How many cm in a m? _____ How many m in a km? _____

Which basic unit would you use to measure or weigh?

Length of a door _____ thickness of a nickel _____ distance to Lynchburg _____

A piece of candy _____ weight of a person _____

This country developed the metric system _____

3 reasons for using the metric system

1) it is _____, based on _____

2) it is _____

3) it is _____

Label the following graph with (x axis, y axis)



Number intervals on a graph must be _____ and have _____ intervals.