

Unit 1 Test

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

Fill in the missing 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 10 drops of chemical x into test tube 1, 10 drops of chemical y into test tube 2, and 10 drops of chemical z into test tube 3. She did not add anything 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 (3) _____

Independent Variable _____

Dependent Variable _____

Control _____

***Study your safety symbols (Page 69 in textbook)**

***Study your metric notes (Page 9-11 in notebook)**

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? _____ How many mm in a m? _____

Measure this line in cm: _____

Which basic unit would you use to measure the mass or length of:

Length of a door _____ thickness of a nickel _____ Mass of a person _____

Distance to Lynchburg _____ Mass of a piece of candy _____

This country developed the metric system _____

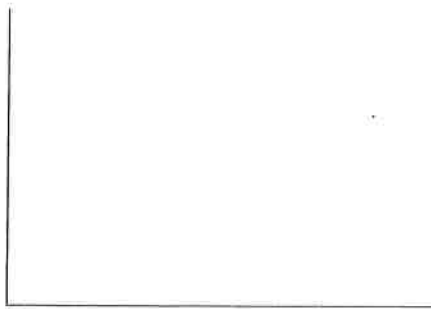
3 reasons for using the metric system:

1) It is _____, based on the number _____.

2) It is _____ - all scientists understand it.

3) It is _____

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



Number intervals on a graph must be _____ and in order.

Identify the term for the following:

The middle number of a set of data: _____

The average number of a set of data: _____

The most common number in a set of data: _____