

Study Guide:

Independent Variable: a variable (often denoted by x) whose variation does not depend on that of another. manipulating

Dependent Variable: respondent y-axis

Observation: qualitative, that is, only the absence or presence of a property is noted, or quantitative if a numerical value is attached to the observed phenomenon by counting or measuring.

Inference: a conclusion reached on the basis of evidence and reasoning. educated guess

Hypothesis: testable statement that is if/then

Control variable: one element that is not changed throughout an experiment, because its unchanging state allows the relationship between the other **variables** being tested to be better understood.

Basic Unit for Length: Meter

Basic Unit for Volume: Liter

Basic Unit for Mass: Gram

Draw the ladder method:

How many grams in 2000 mg? 2

How many kilometers in 2 m .0002

How many centimeters in .0101 mm. .00101