

Unit 1 Study Guide --- ANSWER KEY

- Define scientific method: a procedure for collecting, testing, and communicating information
- Define hypothesis: a suggested answer to the question, an educated guess
- Define experiment: a scientific test to see what will happen
- Define dependent variable: the variable that you do NOT control. (on a graph is usually on the Y axis)
- Define independent variable: the variable that I control. (on a graph is usually on the X axis)
- Define control: the part of the experiment where everything is left the same.
- Define observation: information collected with any of your 5 senses
- Define density: the ratio of mass per unit volume ($D = m/v$)
- Define accuracy: the measure of how close your data is to the ACTUAL or true value.
- Define precision: a measure of how close your data (measurements) are to each other.
- Why do scientists use SI units of measurement? So that measurements can be understood internationally (around the world).

- List (in the correct order) the steps of the scientific method.

1. make an observation	4. test hypothesis (experiment)
2. ask a question	5. analyze data/form a conclusion
3. form a hypothesis	6. develop a theory

- What mnemonic device is used to remember the metric system?

K H Da B d c m
g, m, L

- What is the sentence (mnemonic) that will help you remember the METRIC prefixes in order?

King Henry Died By Drinking Chocolate Milk

- Fill in the table below describing the metric system:

	Kilo	Hecto	Deca	Base	Deci	Centi	Milli
Abbreviation	K	H	Da	g, m, L	d	c	m
Meaning in powers of 10	10^3	10^2	10^1	10^0	10^{-1}	10^{-2}	10^{-3}

Convert the following:

- 2.5L to 2500 mL
- 2.3 km to 230,000 cm
- 0.045 g to 45 mg
- 0.35 kg to 350 g
- 300 mL to 0.300 L

- 2.5 cm to 0.25 m
- 56784 mm to 0.056784 km
- 15 g to 0.015 kg
- 3.452 kL to 3452 L
- 47 m to 47000 mm

Scientific Notation:

Convert the following to scientific notation:

- 0.005 5×10^{-3}
- 5,050 5.05×10^3
- 0.0008 8×10^{-4}
- 1,000 1×10^3

- 0.025 2.5×10^{-2}
- 0.0025 2.5×10^{-3}
- 500 5×10^2
- 5,000 5×10^3

Answer Key 9 Study Guide Physics

Steven Croft

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