### Unit 1 Study Guide --- ANSWER KEY

- 1. Define scientific method: a procedure for collecting, testing, and communicating information
- 2. Define hypothesis: a suggested answer to the question, an educated guess
- 3. Define experiment: a scientific test so see what will happen
- Define dependent variable: the variable that you do NOT control. (on a graph is usually on the Y axis)
- 5. 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.
- 7. 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.
- 10. 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).
- 12. 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 date/form a conclusion
1	form a hymothesis	6	develop a theory

13. What mnemonic device is used to remember the metric system?

K	H	Du	B	c1	C	1771
			g. m. L.			

- 14. What is the sentence (mnemonic) that will help you remember the METRIC prefixes in order? King Henry Died By Drinking Chocolate Milk
- 15. Fill in the table below describing the metric system:

	Killo	Hecto	Deca	Base	Deci	Centi	MIRIE
Abbreviation	K	H	Da	g, m, L	cl	c	arm.
Meaning in powers of 10	103	102	101	100	10-4	10-2	10-3

### Convert the following:

16. 25L to 25000 mL	21. 25 cm to 0.25 m
17. 2.3 km to 230,000 cm	22. 56784 mm to 0.056784 km
18, 0.045 g to 45 mg	23. 15 g to 0.015 kg
19. 0.35 kg to 350 g	24. 3.452 kL to 3452 L
20, 300 mL to 0,300 L	25. 47 m to 47000 mm

#### Scientific Notation:

Convert the follow	ving to scientific notation:	30) 0.025	2.5 x 10 <sup>-2</sup>
26) 0.005	5 x 10 <sup>-3</sup>	31) 0.0025	$2.5 \times 10^{-3}$
27) 5,050	5.05 x 10 <sup>3</sup>	32) 500	$5 \times 10^{2}$
28) 0.0008	8 x 10 <sup>-4</sup>	33) 5,000	5 x 103
29) 1,000	$1 \times 10^{3}$	04695695645696	

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**Arshad Iqbal** 

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