

### 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
4. 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)
6. Define control: the part of the experiment where everything is left the same.
7. Define observation: information collected with any of your 5 senses
8. Define density: the ratio of mass per unit volume ( $D = m/v$ )
9. 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.
11. 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 data/form a conclusion |
| 3. form a hypothesis   | 6. develop a theory               |

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

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

14. What is the sentence (mnemsonic) 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:

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

#### Convert the following:

- |                                 |                                    |
|---------------------------------|------------------------------------|
| 16. 25L to <u>25000</u> mL      | 21. 25 cm to <u>0.25</u> m         |
| 17. 2.3 km to <u>230,000</u> cm | 22. 56784 mm to <u>0.056784</u> km |
| 18. 0.045 g to <u>45</u> mg     | 23. 15 g to <u>0.015</u> kg        |
| 19. 0.35 kg to <u>350</u> g     | 24. 3.452 kL to <u>3452</u> L      |
| 20. 300 mL to <u>0.300</u> L    | 25. 47 m to <u>47000</u> mm        |

#### Scientific Notation:

Convert the following to scientific notation:

- |            |                                      |            |  |
|------------|--------------------------------------|------------|--|
| 26) 0.005  | <u><math>5 \times 10^{-3}</math></u> | 30) 0.025  | <u><math>2.5 \times 10^{-2}</math></u> |
| 27) 5.050  | <u><math>5.05 \times 10^0</math></u> | 31) 0.0025 | <u><math>2.5 \times 10^{-3}</math></u> |
| 28) 0.0008 | <u><math>8 \times 10^{-4}</math></u> | 32) 500    | <u><math>5 \times 10^2</math></u>      |
| 29) 1,000  | <u><math>1 \times 10^3</math></u>    | 33) 5,000  | <u><math>5 \times 10^3</math></u>      |

# Unit 5 Study Guide Answer Key

**Yicheng Fang**



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