

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:

	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:

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

Computer Science Study Guide Answer Keys

Patrick Vollmar



Computer Science Study Guide Answer Keys:

The book delves into Computer Science Study Guide Answer Keys. Computer Science Study Guide Answer Keys is an essential topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Computer Science Study Guide Answer Keys, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:
 - Chapter 1: Introduction to Computer Science Study Guide Answer Keys
 - Chapter 2: Essential Elements of Computer Science Study Guide Answer Keys
 - Chapter 3: Computer Science Study Guide Answer Keys in Everyday Life
 - Chapter 4: Computer Science Study Guide Answer Keys in Specific Contexts
 - Chapter 5: Conclusion
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