

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.

- | | |
|--|--|
| <ol style="list-style-type: none"> 1. make an observation 2. ask a question 3. form a hypothesis | <ol style="list-style-type: none"> 4. test hypothesis (experiment) 5. analyze data/form a conclusion 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
17. 2.3 km to <u>230,000</u> cm
18. 0.045 g to <u>45</u> mg
19. 0.35 kg to <u>350</u> g
20. 300 mL to <u>0.300</u> L | 21. 25 cm to <u>0.25</u> m
22. 56784 mm to <u>0.056784</u> km
23. 15 g to <u>0.015</u> kg
24. 3.452 kL to <u>3452</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>
27) 5.050 <u>5.05×10^1</u>
28) 0.0008 <u>8×10^{-4}</u>
29) 1,000 <u>1×10^3</u> | 30) 0.025 <u>2.5×10^{-2}</u>
31) 0.0025 <u>2.5×10^{-3}</u>
32) 500 <u>5×10^2</u>
33) 5,000 <u>5×10^3</u> |
|--|---|

Carbon Compound Study Guide Answer Key

John McMurry, Susan McMurry



Carbon Compound Study Guide Answer Key:

Study Guide and Solutions Manual Neil E. Schore, 2002-08-02 Organic Chemistry Study Guide Robert J. Ouellette, J. David Rawn, 2014-11-04 Organic Chemistry Study Guide Key Concepts Problems and Solutions features hundreds of problems from the companion book Organic Chemistry and includes solutions for every problem Key concept summaries reinforce critical material from the primary book and enhance mastery of this complex subject Organic chemistry is a constantly evolving field that has great relevance for all scientists not just chemists For chemical engineers understanding the properties of organic molecules and how reactions occur is critically important to understanding the processes in an industrial plant For biologists and health professionals it is essential because nearly all of biochemistry springs from organic chemistry Additionally all scientists can benefit from improved critical thinking and problem solving skills that are developed from the study of organic chemistry Organic chemistry like any skill is best learned by doing It is difficult to learn by rote memorization and true understanding comes only from concentrated reading and working as many problems as possible In fact problem sets are the best way to ensure that concepts are not only well understood but can also be applied to real world problems in the work place Helps readers learn to categorize analyze and solve organic chemistry problems at all levels of difficulty Hundreds of fully worked practice problems all with solutions Key concept summaries for every chapter reinforces core content from the companion book Organic Chemistry Study Guide with Solutions Manual Neil E. Schore, 2007 The guide includes chapter introductions that highlight new material chapter outlines detailed comments for each chapter section a glossary and solutions to the end of chapter problems presented in a way that shows students how to reason their way to the answer Study Guide and Solutions Manual to Accompany Fundamentals of Organic Chemistry John McMurry, Susan McMurry, 1986 **Study Guide with Selected Solutions** Karen Timberlake, 2002-08-06 Written by the author the Study Guide is keyed to the learning goals in the text and designed to promote active learning through a variety of exercises with answers and mastery exams Also contains complete solutions to odd numbered problems **Study Guide and Solutions Manual for Seager/Slabaugh's Chemistry for Today** Seager/Slabaugh, 2004 The fifth edition of the Study Guide and Student Solutions Manual has been updated to reflect all of the changes to the text This ancillary tests the student on the learning objectives in each chapter and provides answers to all of the even numbered end of chapter exercises New additional activities have been added to include a review of each section of the chapter and a section entitled Tying It All Together with a Laboratory Application Study Guide and Solutions Manual, Fundamentals of General, Organic, and Biological Chemistry, Third Edition John McMurry, Susan McMurry, 1999 Provides worked out solutions to text problems along with chapter by chapter outlines and a variety of self tests at the end of each chapter Student Study Guide and Solutions Manual to Accompany General, Organic, and Biochemistry Katherine J. Denniston, Denniston Katherine, 2006 *Study guide to accompany Drew H. Wolfe: General, organic and biological chemistry* Daniel C. Pantaleo, 1986 *Study*

Guide & Solutions Manual to Accompany Organic Chemistry, Third Edition G. Marc Loudon, Joseph G. Stowell, 1995

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