

Chapter 1: Introduction to Chemistry and Chapter 2: Data Analysis

Vocabulary

Directions: Write a contextual definition for each of the following vocabulary terms. All terms are in the book (not necessarily in **bold**) except those designated with an asterisk*. Identify the page # from the chapter that the term was found on (not the glossary from the back of the book).

Section 1.2 Chemistry and Matter (pages 7-9)

1. chemistry <i>page #</i> _____
2. matter <i>page #</i> _____

3. mass <i>page #</i> _____
4. weight <i>page #</i> _____

Section 1.3 Scientific Methods (pages 10-13)

1. scientific method <i>page #</i> _____
2. qualitative data <i>page #</i> _____
3. quantitative data <i>page #</i> _____
4. hypothesis <i>page #</i> _____
5. experiment <i>page #</i> _____
6. dependent variable <i>page #</i> _____
7. independent variable <i>page #</i> _____

8. constant*
9. control <i>page #</i> _____
10. bias*
11. model <i>page #</i> _____
12. theory <i>page #</i> _____
13. scientific law <i>page #</i> _____
14. standard*

Section 2.1 Units of Measurement (pages 25- 30)

1. SI <i>page #</i> _____
2. length <i>page #</i> _____
3. volume <i>page #</i> _____
7. base unit <i>page #</i> _____
8. second <i>page #</i> _____
9. meter <i>page #</i> _____
10. kilogram <i>page #</i> _____

4. mass <i>page #</i> _____
5. density <i>page #</i> _____
6. temperature <i>page #</i> _____
11. derived unit: <i>page #</i> _____
12. liter <i>page #</i> _____
13. density <i>page #</i> _____
14. kelvin <i>page #</i> _____

Section 2.2: Scientific Notation and Dimensional Analysis (pages 31-35)

1. scientific notation <i>page #</i> _____
2. conversion factor <i>page #</i> _____

3. dimensional analysis <i>page #</i> _____

Section 2.3: How Reliable are Measurements? (pages 36-42)

1. accuracy <i>page #</i> _____
2. precision <i>page #</i> _____

3. percent error <i>page #</i> _____
4. significant figures <i>page #</i> _____

Section 2.4 Representing Data (page 43-45)

1. graph <i>page #</i> _____
2. data*
3. x-axis <i>page #</i> _____

4. y-axis <i>page #</i> _____
5. positive slope <i>page #</i> _____
6. negative slope <i>page #</i> _____

Directions: Write a definition for each of the following vocabulary word prefixes, suffixes, or root words.

kilo-
deci-
centi-
milli-
micro-
nano-

mega-
giga-
pico-
hypo-
techno-
-logy