

CHAPTER OVERVIEW

1: Matter and Measurements

What is chemistry? Simply put, chemistry is the study of the interactions of matter with other matter and with energy. This seems straightforward enough. However, the definition of chemistry includes a wide range of topics that must be understood to gain a mastery of the topic or even take additional courses in chemistry. In this book, we will lay the foundations of chemistry in a topic-by-topic fashion to provide you with the background you need to successfully understand chemistry.

- [1.1: Chemistry - The Central Science](#)
- [1.2: States of Matter](#)
- [1.3: Classification of Matter](#)
- [1.4: Chemical Elements and Symbols](#)
- [1.5: Chemical Reactions - Examples of Chemical Change](#)
- [1.6: Physical Quantities - Units and Scientific Notation](#)
- [1.7: Measuring Mass, Length, and Volume](#)
- [1.8: Measurement and Significant Figures](#)
- [1.9: Rounding Off Numbers](#)
- [1.10: Problem Solving - Unit Conversions and Estimating Answers](#)
- [1.11: Temperature, Heat, and Energy](#)
- [1.12: Density and Specific Gravity](#)

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