

# To The Student

## Why the "Concise Guide"

**Because it will significantly increase your grade through a better understanding of chemistry!**

In writing *The Concise Guide to Chemistry*, I have made a major effort to improve the depth of content and clarity of presentation that is often lacking in the review books in order to better meet the needs of students and teachers. This text is intended for a course in general chemistry. The contents of this book cover a two semester course of college chemistry, and text is purposely detailed for college students but comprehensible enough for high school students. This book is also an outstanding study guide for standardized tests on chemistry, such as Regents chemistry, SAT II chemistry and AP chemistry. It assumes no prior knowledge of chemistry.

This text is all about you getting the big picture, helping you with the details, and then showing you the link to the applications in the real world. Each chapter deals with a major subdivision of chemistry and focuses on presenting the material as a part of the whole, which will give you a thorough understanding of chemistry.

The other component of really learning chemistry and doing well in chemistry class is practice by solving new chemistry problems. *The Concise Guide to Chemistry* is the only review book on the market that has its own website. Visit [www.concisechem.com](http://www.concisechem.com) for many essential links to review problems, latest news and other outstanding chemistry resources on the web.

## Objectives

This is not a textbook. It is a review book that works perfectly with any other textbook that you use. This review book is indispensable to any student because it provides a unified framework of concepts. What I discovered through years of teaching is that students learn much better when they see how concepts all fit together.

This text has two main objectives:

- Provide the student with a clear, concise and logical presentation of the fundamental concepts and principles of chemistry.
- Strengthen understanding of the concepts and principles through special emphasis on problem solving and links to real life applications.

To meet these objectives, I have placed great emphasis on chapter concept maps, detailed equations, summary tables and summary figures, which thoroughly present and summarize the material. Major emphasis has been placed on conceptual problems and conceptual understanding which are far more effective than routine memorization.