



# Understanding Basic Chemistry Through Problem Solving: The Learner's Approach

By Kim Seng Chan

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Written for students taking either the University of Cambridge O-level examinations or the Gcse examinations, this guidebook covers essential topics and concepts under stipulated chemistry syllabi. The topics are explored through an explanatory and inquiry-based approach. They are interrelated and easy to understand, with succinct explanations/examples being included, especially on areas that students frequently find difficult. Topics address the whys and hows behind key concepts to be mastered, so that the concepts are made understandable and intuitive for students. The focus is on conceptual learning so as to equip students with knowledge for critical learning and problem solving. The authors have also retained the popular discourse feature from their previous four books - Understanding Advanced Physical Inorganic Chemistry, Understanding Advanced Organic and Analytical Chemistry, Understanding Advanced Chemistry Through Problem Solving, and Understanding Basic Chemistry - to help the learners better understand and see for themselves, how the concepts should be applied during problems solving. Based on the Socratic Method, questions are implanted throughout the book to help facilitate the reader's development in forming logical conclusions of concepts and the way they are being applied to explain the problems. In addition, the authors have also included important summaries and concept maps to help the learners to recall, remember, reinforce and apply the fundamental chemical concepts in a simple way. Through their many years of teaching experiences, the authors have acquired a sound awareness of common students' misconceptions which are relayed through the questions and thus help to reinforce concepts learnt. This book is essential and useful to help students adequately prepare for the high-stake examinations.

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## Understanding Basic Chemistry Through Problem Solving: The Learner's Approach By Kim Seng Chan Bibliography

- Sales Rank: #3273241 in Books
- Published on: 2015-01-17
- Released on: 2014-11-14
- Original language: English
- Number of items: 1
- Dimensions: 9.00" h x 1.10" w x 6.00" l, .84 pounds
- Binding: Paperback
- 468 pages

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### **Editorial Review**

From the Inside Flap

This book, the fourth in a series of Understanding Chemistry books, deals with Basic Chemistry.

Written for students taking either the University of Cambridge O-level examinations or the GCSE examinations, this textbook covers essential topics under both stipulated chemistry syllabi. The book is written in such a way as to guide the reader through the understanding and applications of basic essential chemical concepts by introducing a discourse feature the asking and answering of questions that stimulates coherent thinking and hence, elucidates ideas. Based on the Socratic Method, questions are implanted throughout the book to help facilitate the reader's development in forming logical conclusions of concepts. The book helps students to master fundamental chemical concepts in a simple way.

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