



Understanding Experimental Planning for Advanced Level Chemistry: The Learner's Approach

Kim Seng Chan, Jeanne Tan

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This book is a continuation of authors' previous six books — *Understanding Advanced Physical Inorganic Chemistry*, *Understanding Advanced Organic and Analytical Chemistry*, *Understanding Advanced Chemistry Through Problem Solving Vol. I & II*, *Understanding Basic Chemistry* and *Understanding Basic Chemistry Through Problem Solving*, retaining the main refutational characteristics of the previous books with the strategic inclusion of think-aloud questions to promote conceptual understanding during an experimental planning. These essential questions would make learners aware of the rationale behind each procedural step, the amount of chemical used and types of apparatus that are appropriate for the experiment.

The book provides a fundamental important scaffolding to aid students to create their own understanding of how to plan an experiment based on the given reagent and apparatus. It guides the students in integrating the various concepts that they have learnt into a coherent and meaningful conceptual network during experimental planning.

Existing A-level or IB guidebooks generally introduce concepts in a matter-of-fact manner. This book adds a unique pedagogical edge which few can rival. This book is essential and useful in order for students to be adequately prepared for their high stake examinations.

Readership: A level students and teaching professionals.

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