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this booklet is the first in a fifteen part series which attempts to provide a complete teaching pack for new inexperienced and with due humility possibly experienced teachers too although there is no doubt that any such task is fraught with difficulties mainly those to do with teaching style and the students in front of you in the classroom nevertheless it is the author s firm belief that there is without doubt a right way and a wrong way to teach chemistry

this book focuses on developing and updating prospective and practicing chemistry teachers pedagogical content knowledge the 11 chapters of the book discuss the most essential theories from general and science education and in the second part of each of the chapters apply the theory to examples from the chemistry classroom key sentences tasks for self assessment and suggestions for further reading are also included the book is focused on many different issues a teacher of chemistry is concerned with the chapters provide contemporary discussions of the chemistry curriculum objectives and assessment motivation learning difficulties linguistic issues practical work student active pedagogies ict informal learning continuous professional development and teaching chemistry in developing environments this book with contributions from many of the world s top experts in chemistry education is a major publication offering something that has not previously been available within this single volume chemistry teachers teacher educators and prospective teachers will find information and advice relating to key issues in teaching such as the curriculum assessment and so forth but contextualised in terms of the specifics of teaching and learning of chemistry and drawing upon the extensive research in the field moreover the book is written in a scholarly style with extensive citations to the literature thus providing an excellent starting point for teachers and research students undertaking scholarly studies in chemistry education whilst at the same time offering insight and practical advice to support the planning of effective chemistry teaching this book should be considered essential reading for those preparing for chemistry teaching and will be an important addition to the libraries of all concerned with chemical education dr keith s taber university of cambridge editor chemistry

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