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Teaching Chemistry Jan Apotheker, 2019-05-06 Teaching Chemistry can be used in courses focusing on training for secondary school teachers in chemistry The author who has been actively involved in the development of a new chemistry curriculum in The Netherlands and is currently chair of the Committee on Chemistry Education of the International Union of Pure and Applied Chemistry offers an overview of the existing learning models and gives practical recommendations how to implement innovating strategies and methods of teaching chemistry at different levels It starts at the beginner level with

students that have had no experience in secondary schools as a teacher After a solid background in the theory of learning practical guidance is provided helping teachers develop skills and practices focused on the learning process within their classrooms In the final chapter information is given about the way teachers can professionalize further in their teaching career Addresses innovative teaching methods and strategies Includes a section of practical examples and exercises in the end of each chapter Written by one of the top experts in chemistry education Jan Apotheker taught chemistry for 25 years at the Praedinius Gymnasium Groningen In 1998 he became a lecturer in chemistry education at the University of Groningen retired in 2016 He is currently chair of the Committee on Chemistry Education of the IUPAC

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Mathematics Gregory Hine, Judy Anderson, Robyn Reaburn, Michael Cavanagh, Linda Galligan, Bing H. Ngu, Bruce White, 2021-09-24 Secondary mathematics teachers working in the Australian education sector are required to plan lessons that engage with students of different genders cultures and levels of literacy and numeracy Teaching Secondary Mathematics engages directly with the Australian Curriculum Mathematics and the Australian Professional Standards for Teachers to help preservice teachers develop lesson plans that resonate with students This edition has been thoroughly revised and features a new chapter on supporting Aboriginal and Torres Strait Islander students by incorporating Aboriginal and Torres Strait Islander cultures and ways of knowing into lessons Chapter content is supported by new features including short answer questions opportunities for reflection and in class activities Further resources additional activities and audio and visual recordings of mathematical problems are also available for students on the book's companion website Teaching Secondary Mathematics is the essential guide for preservice mathematics teachers who want to understand the complex and ever changing Australian education landscape

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Teaching Chemistry Around the World Björn Risch, 2010 As teachers we often tend to expect other countries to teach chemistry in much the same way as we do but educational systems differ widely At Bielefeld University we started a project to analyse the approach to chemical education in different countries from all over the world Teaching Chemistry around the World 25 countries have participated in the project The resulting country studies are presented in this book This book may be seen as a contribution to make the structure of chemistry teaching in numerous countries more transparent and to facilitate communication between these countries Especially in the case of the school subject chemistry which is very unpopular on the one hand and occupies an exceptional position on the other hand due to its relevance to jobs and everyday life and most notably due to its importance for innovation capacity and problem solving we have to learn from each others educational systems

Learning to Teach Science in the Secondary School Jenny Frost, Tony Turner, 2005 The second edition of this popular student textbook presents an up to date and comprehensive introduction to the process and practice of teaching and learning science It takes into account changes in science education since the first edition was published including more recent curriculum reform This new edition builds upon the success of its predecessor introducing new material on the use of ICT in science teaching as well as providing sound informative and useful discussion on managing your professional development knowledge concepts and principles of science planning for learning and teaching in science practical teaching strategies selecting and using resources assessment and examinations and the broader science curriculum

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