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AQA approved. Expand and challenge your students' knowledge and understanding of Chemistry with this textbook that guides students through each topic, the 8 required practical activities and assessment requirements of the new 2016 AQA GCSE Chemistry specification. - Provides support for all 8 required practicals, along with extra tasks for broader learning - Tests understanding and consolidate learning with Test Yourself questions, Show you Can challenges, Chapter review questions and synoptic practice questions - Supports Foundation and Higher tier students, with Higher tier-only content clearly marked - Builds Literacy skills for the new specification with key words highlighted and practice extended answer writing and spelling/vocabulary tests

Chemistry is widely considered to be the central science: it encompasses concepts from which other branches of science are developed. Yet, for many students entering university, gaining a firm grounding in chemistry is a real challenge. Chemistry responds to this challenge, providing students with a full understanding of the fundamental principles of chemistry on which to build later studies. Uniquely amongst the introductory chemistry texts currently

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available, Chemistry is written by a team of chemists to give equal coverage of organic, inorganic and physical chemistry - coverage that is uniformly authoritative. The approach to organic chemistry is mechanistic, rather than the old-fashioned 'functional group' approach, to help students achieve a fuller understanding of the underlying principles. The expertise of the author team is complemented by two specialists in chemistry education, who bring to the book a wealth of experience of teaching chemistry in a way that students enjoy and understand, and who understand the challenges of the transition from school to university. The result is a text that builds on what students know already from school and tackles their misunderstandings and misconceptions, thereby providing a seamless transition from school to undergraduate study. The authors achieve unrivalled accessibility through the provision of carefully-worded explanations and reminders of students' existing knowledge; the introduction of concepts in a logical and progressive manner; and the use of annotated diagrams and step-by-step worked examples. Students are encouraged to engage with the text and appreciate the central role that chemistry plays in our lives through the unique use of real-world context and photographs. Chemistry tackles head-on two issues pervading chemistry education: students' mathematical skills, and their

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ability to see the subject as a single, unified discipline. Instead of avoiding the maths, Chemistry provides structured support, in the form of careful explanations, reminders of key mathematical concepts, step-by-step calculations in worked examples, and a Maths Toolkit, to help students get to grips with the essential mathematical element of chemistry. Frequent cross-references highlight the connections between each strand of chemistry and explain the relationship between the topics, so students can develop an understanding of the subject as a whole.

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Ecotoxicology and Chemistry Applications in Environmental Management describes how to set up an integrated, holistic approach to addressing ecotoxicological problems. It provides detailed explanations in answer to questions like "Why is it necessary to apply an integrated approach?" and "How does one apply an integrated environmental management approach?" Highlighted topics of the book include Environmental chemical calculations QSAR estimation methods Toxic substance interference with other environmental problems

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(Drug Resistance and Drug Synergism): This new chapter includes topics taken from two chapters in the previous edition, with many new examples

Chapter 8 (Drug Metabolism): Discussions of

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Quantitative Structure-Activity Relationships (QSARs) are increasingly used to predict the harmful effects of chemicals to humans and the environment. The

increased use of these methods in a variety of areas (academic, industrial, regulatory) results from a

realization that very little toxicological or fate data is available on the vast amount of chemicals to which

humans and the environment are exposed. Predicting

Chemical Toxicity and Fate provides a comprehensive explanation of the state-of-the-art methods that are

available to predict the effects of chemicals on humans and the environment. It describes the use of predictive

methods to estimate the physiochemical properties,

biological activities, and fate of chemicals. The methods

described may be used to predict the properties of drugs before their development, and to predict the

environmental effects of chemicals. These methods also reduce the cost of product development and the need for

animal testing. This book fills an obvious need by

providing a comprehensive explanation of these

prediction methods. It is a practical book that illustrates

the use of these techniques in real life scenarios. This

book will demystify QSARs for those students unsure of

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them, and professionals in environmental toxicology and chemistry will find this a useful reference in their everyday working lives.

The 12th edition of Organic Chemistry continues Solomons, Fryhle & Snyder's tradition of excellence in teaching and preparing students for success in the organic classroom and beyond. A central theme of the authors' approach to organic chemistry is to emphasize the relationship between structure and reactivity. To accomplish this, the content is organized in a way that combines the most useful features of a functional group approach with one largely based on reaction mechanisms. The authors' philosophy is to emphasize mechanisms and their common aspects as often as possible, and at the same time, use the unifying features of functional groups as the basis for most chapters. The structural aspects of the authors' approach show students what organic chemistry is. Mechanistic aspects of their approach show students how it works. And wherever an opportunity arises, the authors' show students what it does in living systems and the physical world around us.

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Education, University of London, UK. 'With great sensitivity and force, and in wonderfully clear prose, Scherto Gill and Garrett Thomson explore some fundamental questions about what we want from our education system and what we can expect from it. [...] It is highly recommended for all who are interested in education, whether from a more theoretical point of view or from a more practical point of view' Professor Adrian W. Moore, Faculty of Philosophy, University of Oxford, UK. Could we have a system of secondary education that provides alternatives to the current mainstream schooling and its emphasis on exams, learning outcomes and the delivery of a fixed curriculum? How could such a system focus on both human and educational values? How could secondary education combine the personal development of students with good academic standards? In response to these questions, Gill and Thomson have written a new, cutting-edge text aimed at all those involved in the study of education or teacher training. *Rethinking Secondary Education* explores, debates and critiques new and alternative approaches to teaching young people today. The book discusses a 'human-centred' approach to curriculum, pedagogy, assessment and the culture of schools and colleges. It is grounded in theory and empirical research, discussing the need for a curriculum for the future, bridging a gap between mainstream and alternative education. It also offers practical guidance on how these ideas can be put into practice, making it an ideal resource for trainee teachers, experienced practitioners and students of education alike. Key features of the text:

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A balanced approach, comparing and contrasting both traditional and alternative approaches to education  
Strong grounding in theory and research  
The inclusion of young people's perspectives and 'voices' on their education and on being an adolescent  
Links to practice - showing how the theory and research can actually be put into practice to bring about change

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behavior in the environment, as well as new sections on radionuclides and acid drainage water. The chapter on atmospheric chemistry and pollution has been substantially expanded including photochemical smog, the Greenhouse Effect, and pollution processes in the atmosphere and acid rain. The author also adds recent approaches to ecotoxicology, ecological, and human risk assessments to include the probabilistic approach. *Basic Concepts of Environmental Chemistry, Second Edition* is a practical textbook for teaching students the basic concepts of chemistry in the framework of the environment and a practical reference for anyone involved in the management and disposal of industrial chemicals and emissions, occupational health and safety, and the protection of the natural environment.

*Introduction to Chemical Exposure and Risk Assessment* focuses on the principles involved in assessing the risks from chemical exposure. These principles include the perception of risk, an understanding of how numbers are handled, and how chemicals affect health. The book briefly describes the major sinks, such as water and air, where chemicals are introduced. This is followed by a discussion on how concentrations are estimated and risk assessments are made. A discussion of risk benefit analysis and a presentation of several case studies using the principles for assessing risks are

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The book describes up-to-date applications and relevant theoretical results. These applications come from various places, but the most important one, numerically speaking, is the internet based educational system ALEKS. The ALEKS system is bilingual English-Spanish and covers all of mathematics, from third grade to the end of high school, and chemistry. It is also widely used in higher education because US students are often poorly prepared when they reach the university level. The chapter by Taagepera and Arasasingham deals with the application of knowledge spaces, independent of ALEKS, to the teaching of college chemistry. The four chapters by Albert and his collaborators strive to give cognitive interpretations to the combinatoric structures obtained and used by the ALEKS system. The contribution by Eppstein is technical and develops means of searching the knowledge structure efficiently.

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