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Edition of Chemistry: The Molecular Nature of Matter, the authors deliver a practical and essential introduction to general chemistry. Thoroughly revised, with particular attention paid to the optimization of the text and included LearnSmart questions, the book focuses

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throughout on keeping the material accessible and succinct.

This book offers a step-by-step analysis and discussion of just why some students find chemistry difficult, by examining the nature of chemistry concepts, and how they are communicated and learnt.

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phenomena, supported by impressively clear drawings. It has been revised to include recent scientific developments such as DNA and environmental issues, and continues to give sound advice about likely misconceptions whilst maintaining its focus on explaining

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the science for teachers' - "Wynne Harlen, Professor in Education, University of Bristol ""In a thoroughly revised and updated version, this standard reference book provides the background knowledge teachers need in order to plan effective programmes of

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work and answer children's questions with confidence. It is based on the belief that children learn most effectively when they can interpret their own experiences and investigation in scientific terms. The content of this book has been guided, but not limited, by the

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National Curriculum (NC) and the detailed requirements for teacher knowledge of the Teacher Training Agency (TTA). It sets out the facts, develops the concepts and explains the theories which pupils at primary level, including older and very able children, are likely to

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need in order to understand the observations and investigations they undertake. For this edition some new topics have been added, in response not only to TTA requirements and ongoing developments in science and technology, but also to the queries

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of children and teachers about observations they find relevant and puzzling. Throughout, topics are developed in ways which teachers and children can relate to their own experience. The text does not assume specialised scientific knowledge and, wherever possible,

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explanations and the development of ideas begin and remain firmly in contact with everyday events and observations. What is assumed is that readers will be wi

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chemicals, experimental
chemistry, methods of
purification, particles of
matter, redox reactions,
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reaction, factor affecting,
and measuring speed of
reaction. Solve Structure of
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atom, atomic mass, isotopes,
number of neutrons, periodic
table, nucleon number,
protons, neutrons,
electrons, and valence
electrons.*

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an understanding of medicine and biology, environmental science, and many areas of engineering and industrial processing that it has become a requirement for an increasing number of academic majors.

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covalent bonds, triple
covalent bonds, electron
pair repulsion and bond**

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repulsion theory, enthalpy
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bonding, ionic bonds and
covalent bonds, ionic bonds,
metallic bonding, metallic
bonding and delocalized**

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electrons, sigma bonds and
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bonds, s-orbital and p-
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forces, and contact points.
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elements, physical
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elements, reaction of group
II elements with oxygen,
reactions of group II
elements, reactions of group
VII elements, thermal
decomposition of carbonates**

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bonds, molecular structures
of period 3 oxides,
oxidation number of oxides,
oxidation numbers, oxides
and hydroxides of period 3
elements, oxides of period 3**

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the theories and evidence about the origin and evolution of matter, consciousness, and mankind. The result, a “pearl of dialectical reasoning” (Publishers Weekly, starred review), provides the most comprehensive account yet of current ideas such as

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cosmic inflation, dark energy, the selfish gene, and neurogenetic determinism. In the clearest possible prose it differentiates the firmly established from the speculative and examines the claims of various fields to approach a unified theory of

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everything. In doing so it challenges the orthodox consensus in those branches of cosmology, biology, and neuroscience that have ossified into dogma. Its “shocking and invigorating” analysis (Daily Telegraph, A Best Science Book of

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2015) reveals underlying patterns of cooperation, complexification, and convergence that lead to the unique emergence in humans of a self-reflective consciousness that enables us to determine our future evolution. This groundbreaking book is destined

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to become a classic of scientific thinking.

□□□□□□□ (□□□)

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interest through early coverage of chemical reactions, accessible explanations and visualizations, and an emphasis on everyday applications, the authors

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