

Full list of all the articles published in Volumes 6-10 of Chemistry Review, arranged by issue

Title	Key words	Feature type	Author	Vol.	No.
Stick with it	Adhesives, how they work, polymers for glues, polyurethanes, acrylic glues, epoxy resins		Gill Thomas	6	1
Polymer Wordsearch		Making and Doing		6	1
Grove, Sir William		100 years ago	Peter Ellis	6	1
Web Elements		Chemistry on the Web	Anne Hodgson	6	1
Doll Disease	Cellulose acetate, Raman spectroscopy,		Howell Edwards	6	1
Volumetric Analysis		Lab Page	Margaret Ferguson	6	1
Organic Chemistry, First Class	Stamps with a chemical theme	In Pictures		6	1
CFCs, Rise and Fall of	CFCs, early refrigerants, HCFCs, global warming		Dick Powell	6	1
Hydrogen Peroxide		Substances	Gordon Woods	6	1
Reactions that don't seem to add up`	Copper(II) sulfate, sodium hydroxide reaction	Project Page	Derek Denby	6	1
Plant Location	Benzene, dyestuffs.	Essential Chemical Industry	Gill Thomas	6	1
Hazel, Nick	Issues Manager, BP Chemicals	People		6	1
Acid base indicators and buffer solutions		Revision Note	Rod Beavon	6	1
Reactions of halogenoalkanes with potassium hydroxide.		Answer Back	Geoff Hallas	6	1
Winning crystals	large crystals grown by readers	Back Page		6	1
Proteins	Isotopes, chemical reactivity, solutions and crystals		John Garratt	6	2
Anagrams		Making and Doing		6	2
Testing for Metal Ions		Lab Page	Margaret Ferguson	6	2
Becquerel	Luminescence, radioactivity		Peter Ellis	6	2
Alumina	Bauxite, occurrence in nature, precious stones, anodised aluminium	Substances	Gordon Woods	6	2
Clock Reactions		Project Page	Derek Denby	6	2
Proteins, Ways of representing		In Pictures		6	2

Salt		Focus on Industry	Bill Fox	6	2
Ultraviolet and visible spectra	Explaining emission spectra, flame tests, hydrogen spectrum, experimental set-up	Revision Note		6	2
Raw Materials	Water, Air, Earth	Our Essential Chemical Industry	Gill Thomas and John Garratt	6	2
Cat, The inside of a	Transition metals as catalysts, death of a catalyst, air/fuel management.		Graham Mills and Gerry Ottewill	6	2
Ammonium Nitrate		Answer Back	Frank Harris	6	2
Information about degree courses		Chemistry on the Web	John Garratt	6	2
Acid-base equilibria - concept map				6	2
Salt Mining		Back Page		6	2
Sex and Scents	Insect attractants, making chemical attractants		David Kelly	6	3
A Bird's Eye View	Defining chemical industry, industry's customers, chemical companies	Essential Chemical Industry	Gill Thomas	6	3
Dragons Blood and Celluloid	Chemical conundrums for museums. Gums, resins and waxes, plastics made from cellulose, GLC, Infrared and Raman spectroscopy		Anita Quye	6	3
Chemistry in the Open Air		In Pictures		6	3
Aspirin, How pure is your	Aspirin, thin layer chromatography	Project Page	Derek Denby	6	3
Silica	Sand, carbon dioxide and silicon dioxide, glasses, glass fibre, quartz.	Substances	Gordon Woods	6	3
Coppergate Helmet	Conservation, corrosion of buried iron, chemical analysis.		Sonia O'Connor	6	3
Molecule of the Month		Chemistry on the Web	John Garratt	6	3
Organic Chemistry, Knocking your ... into shape		Answer Back	Peter Simpson	6	3
Hodgson, Anne	Chemistry Department, University of York	People		6	3

Spy v Spy	molecular sensors are molecules designed to recognise and signal the presence of specific species		Jonathan Steed	6	4
Nitric Oxide	Free radicals, atmospheric NO, tropospheric, stratospheric NO, NO in the body	Substances	Gordon Woods	6	4
Capillary electrophoresis	Forensic scientists and art historians are amongst those using this revolutionary technique for analysing tiny samples. Methods of detection, sample injection		Anne Hodgson	6	4
Separating solids from liquids		Lab Page	Margaret Ferguson	6	4
Mass Spectrometry		In Pictures		6	4
Kinetics – facts and theory	rate of reaction, order, chain reactions, rate constants, rate-determining steps, collision theory.	Revision Note		6	4
CHEMystery		Chemistry on the Web	Jason Lynam	6	4
	Dingbats			6	4
Atmospheric inputs to the oceans	Finding out how much of the pollution in the oceans comes from the atmosphere.		Tim Jickells	6	4
Essential Energy		Essential Chemical Industry	Gill Thomas	6	4
An organic Whodunit	interconversion of organic functional groups, tests for functional groups	Answer Back	Peter Blake and Keith Warren	6	4
Investigating enzymes	Browning bananas, hydrolysing oils	Project Page	Derek Denby	6	4
Rock and Roll Eggs	rocks and minerals	Back Page		6	4
The Island that time forgot	Frankincense, dragon's blood trees	Back Page		6	4
Analysing Food Flavours	Analysis of flavours in food using chromatography and electronic noses		Zulfiqur Ali and Liam O'Hare	6	5
Coffee, Tea & Chemistry	Chemistry of making roast coffee and black tea and processes of brewing.		Michael Spiro	6	5
Take That!	How medicines get to work, formulating a drug molecule into an effective medicine		Amanda King	6	5

Keeping Costs Down	Fixed and variable costs, reducing costs of production, etc.	Essential Chemical Industry	John Garratt & Gill Thomas	6	5
MathMol		Chemistry on the Web	Jason Lynam	6	5
Dr Beaker	Some puzzles/logic problems	Making & Doing	Tina Overton	6	5
Levitt, Melissa	Chemistry Commissioning Editor for OUP	People		6	5
Water treatment		In Pictures		6	5
Handling Gases		Lab Page	Margaret Ferguson	6	5
Mixed Oxides		Substances	Gordon Woods	6	5
Copper Chemistry	Salter's. Minerals to Elements	Answerback	Frank Harriss	6	5
Group 4		Revision Note	Ray Vincent	6	5
Virtual Reality in molecular modelling		Back Page		6	5
As Mad as a Hatter	Mercury: an element with a large number of uses. Mercury in our mouths.		Gerry Ottewill and Graham Mills	7	1
Buckminsterfullerenes		Chemistry on the Web	Jason Lynam	7	1
Chlorides	Bonding and structure, melting and boiling points, electrical conductivity.	Substances	Gordon Woods	7	1
Titration, How accurate are they?	Language of analysis	Project Page	Derek Denby	7	1
Gases, Testing for		Lab Page	Ray Vincent	7	1
Kroto, Sir Harry	buckyballs	Encounter		7	1
University Research	Mobile atmospheric monitoring lab.	All in a day's work	Alastair Lewis	7	1
Breath of Fresh Air	Atmospheric chemistry - field campaign at Mace Head (hydroxyl radicals and organic compounds)	In Pictures		7	1
Gases, Identifying		Revision Note	Ray Vincent	7	1
Foiling the Food Fraudsters	Wide range of analytical approaches used by chemists in detection of adulteration of foodstuffs. Enzymatic methods, HPLC, Isotopic methods		Reg Wilson	7	1
Element Search		Making and Doing		7	1
Language, getting it right	Chlorine molecule, ions	Top Tips	Margaret Ferguson	7	1

Research Team	Introduction		Eric Albone	7	1
Structures, equations and mechanisms	NEAB	Answerback	Graham Curtis	7	1
Nitrogen and phosphorus in estuaries	Removal of DIP in estuaries, quantifying removal processes, nitrogen	Chemistry in the Environment	Tim Jickells	7	1
Mercury, Oceans of	In China - emperor	Back Page		7	1
Nitric Oxide, The curious life of	Nitric Oxide is not just a pollutant gas, it is vital to the health of our bodies. Oxides of nitrogen, macrophages.		Anthony Butler and Douglas Short	7	2
Chemistry is Fun!	Be safe, colourful chemistry, iodine clock.	Making & Doing	Anne Hubbard	7	2
Fantastic Plastics	alkenes	Focus on Industry	Bill Fox	7	2
Chocolate	The inside story! Ingredients.	In Pictures	Thierry Guiheneuf	7	2
Carbon monoxide - more than just a deadly gas	Carbon Monoxide is a key reagent in environmentally friendly chemical manufacture		John Evans	7	2
Intermolecular bonds	Polar molecule	Revision Note	Cathy Sparrow	7	2
Oxidation States	Oxidation numbers. Working out oxidation states	Top Tips	Margaret Ferguson	7	2
Mountains of waste	Waste, disposal, landfill	Chemistry and the Environment	Paul Phillips	7	2
Research & Development		All in a day's work	Colin Newbould	7	2
Green Pages		Chemistry on the Web	Jason Lynam	7	2
Carbon Monoxide	Atomic efficiency of reactions, carbon monoxide and catalysis, catalysts		John Evans	7	2
Potassium Chloride	Lattice, salt bridges, manufacture of potassium compounds	Substances	Gordon Woods	7	2
Up in Smoke	Polycyclic aromatic hydrocarbons in the atmosphere	Back Page		7	2
Shapes of Molecules	Osmium, predicting shapes, ethane and ethanol	Top Tips		7	3
Surface Tension, investigating		Making and doing	Gerry Ottewill	7	3
Aluminium chloride	Lewis acid, bases, organic catalyst	Substances	Gordon Woods	7	3
Isomerism		Revision Note	John Murray	7	3

Iceman of the Alps	Spectroscopic techniques to analyse human skin, lipids, mummies, molecular vibration and Raman spectroscopy		Howel Edwards	7	3
SO ₂ and acid rain	Detection and determination, sampling	Chemistry and the Environment	Tony Edmonds and John Lee	7	3
Planning your Chemistry		Answerback	Alastair Fleming	7	3
What is in Wine	Organic acids found in wine	Project Page	Derek Denby	7	3
Materials, Challenge of		In Pictures		7	3
CHIME		Chemistry on the Web	Jason Lynam	7	3
Hodgkin, Dorothy	Women of Achievement	Back Page	Jean Whittingham	7	3
Molecules in Space	Radical Reactions, Thermodynamics, Kinetics, Spectroscopy, low temperature reactions kinetics. Light and electromagnetic radiation, spectra, temperature		Ian Smith	7	3
Sulfur: Element of Mystery	Sulfur can exist as rings and chains. These forms give rise to a range of colours, which have been observed on the Jovian moon, Io.		Tony Semlyen	7	4
Sulfur vs. sulphur	Explanation about the spelling of sulfur			7	4
Chemistry on the Web	Life, the universe & the electron		Jason Lynam	7	4
Gold's Fingerprint	From serious crime to ancient artefacts, elemental fingerprinting can reveal the secrets of gold.		John Watling	7	4
CCl and SiCl ₄	As a solvent, toxicity of, reactions with water.	Substances	Gordon Woods	7	4
Ioning out the problems	The use of ion exchange to purify water. Calculations in ion exchange chemistry, ion exchange systems in nature.		Nick Womack	7	4
Ion Exchange Resins	pKa values for some amino acids	Project Page	Derek Denby	7	4
Thermal analysis	thermogravimetry (TG), differential thermal analysis (DTA), differential scanning calorimetry (DSC)	In Pictures	Anne Hodgson	7	4
Chemistry at Work	Clay structure, electrochemical sensors, froth flotation	Encounter	King Edward VI College	7	4

Climate Change and CO ₂	Measuring temperatures of the past, molecular solution	Chemistry & the Environment	Brendan Keely	7	4
Periodic Patterns	NEAB 1996	Answerback	Peter Battye	7	4
Black Smokers	Hydrothermal activity beneath the sea	Back Page	Brendan Keely	7	4
Quantum Mechanical Magic in the STM	Scanning tunnelling microscopy (STM)		Chris Ennis	7	5
Tracing Oil Spills at Sea	Crude Oil, Oil Spills at Sea, Chemical Analysis	Chemistry & The Environment	Evin McGovern	7	5
Aluminium	A paradoxical metal, data table	Focus on Industry	Peter Ellis	7	5
The Secret Life of an Organic Reaction	Curly Arrows. Substitution Reactions Addition Reactions, Elimination Reactions	Revision Note		7	5
Seeing Atoms	reconstruction	In Pictures	Tim Doust	7	5
Patent Agent	trainee patent agent for Glaxo Wellcome	All in a Day's Work	Siân Hockley,	7	5
IUPAC	naming elements 101-109	Did You Know		7	5
Illuminated Letters	Phosphorescent inks. Luminescence,		Dr A Lane	7	5
Measuring the boiling point of a liquid	Vapour pressure and boiling point, simple distillation	Lab Page		7	5
PMD – A Natural Seed Germination Inhibitor	stereoisomerism	Research Team	Watford Grammar School	7	5
HCl	Hydrogen chloride	Substances	Gordon Woods	7	5
Chromatography & The Structure of a Dipeptide		Answerback	Robin Hillman	7	5
Konzo: A case of cyanide poisoning from food	Cassava, cyanide poisoning, thiocyanate		Angela Melamed	8	1
Quinine – One of the Great Molecules	Cinchona bark and mosquito bites, natural and synthetic products, malaria, heterocyclic molecules, stereoisomers	Chemistry & Health	Chris Ramsden	8	1
Calculating Amounts	Chemical formulae and equations. Calculating moles	Top Tips	Margaret Ferguson	8	1
Poison		Chemistry on the Web	Doug Clow	8	1
Logical Chemistry		Making & Doing	Joe McGinnis	8	1
pH		In Pictures	Dave Lindsey	8	1

Complex Information	Transition metal elements and complex ions	Answerback	Brian Parker	8	1
Make a Note	The production of intaglio printing plates. Nickel electroforming. Silver spraying, chrome plating		David Stone	8	1
Using Mnemonic methods		Remember, Remember	Tom Keogh	8	1
Measuring pH	Acid base indicators, pH meters	Lab Page	David Lindsey	8	1
Halogens		Revision Note	Cathy Sparrow	8	1
Alcohol and Drink-Driving	Absorption of infrared Radiation by molecules. Breath Testing. Analysis of Samples.		Ben Faust	8	2
Niels Bohr	A puzzle	Making & Doing	Gerry Ottewill	8	2
Fire	Bangs and Smells	Chemistry on the Web	Doug Clow	8	2
Naphthazarin, PDT and the Fight Against Cancer	Photodynamic Therapy, Raman spectroscopy	Research Team	Erlick Pereira	8	2
The Story System	Mnemonics	Remember, Remember	Tom Keogh	8	2
Medicines in the Garden	Medicinal Plants	In Pictures	Anne Hodgson	8	2
Metals in Medicine	Inorganic Drugs, <i>Cis</i> explained, Cisplatin, DNA, Technetium	Chemistry & Health	Spencer Harben and Jon Freeman	8	2
Spider diagrams		Revision Note	Peter Battye	8	2
Chromatography, What is	TLC	Lab Page	Dave Lindsey	8	2
Drugs in the Hay		Back Page	Anne Hodgson	8	2
Does faster mean Further	Kinetics, equilibria.	Answerback	Peter Blake and Keith Warren	8	2
Making Models	Molecular modelling, molecular mechanics and energy minimisation, predicting shapes, drug design		Paul Cox, Graham Mills and Gerry Ottewill	8	2
Marie Curie		Did you know	Peter Ellis	8	2
Protecting Timber naturally	Chemicals to prevent wood from rotting. CCA.		Ed Suttie	8	3
Body Parts from the Polymer Lab	Poly(methylmethacrylate) PMMA bone cement, tissue engineering, degradable polymers, polymers for the eye	Chemistry & Health	Chris Ansell	8	3

Organic Chemistry	Infrared absorption data	Answerback	Peter Battye	8	3
The loci system		Remember, Remember	Tom Keogh	8	3
Bunsen	The Bunsen Cell, Measuring relative atomic mass	100 years ago	Peter Ellis	8	3
Prehistoric Gums & Glues	Gas chromatography, mass spectrometry, turpenes, trimethylsilylation, chewing gum, adhesive.		Liz Aveling and Carl Heron	8	3
Chemistry under the Microscope	crystals in polarised light	In Pictures	Dr Harold Rose	8	3
The Alkanes	Combustion of, The reaction of methane with chlorine, isomers of alkanes.	Revision Note	Peter Battye	8	3
Antarctic Research		All in a Days Work	Julie Hall	8	3
Oscillating Reactions	Briggs-Rauscher Reaction, Belousov-Zhabotinsky reaction	Project Page	Derek Denby	8	3
Butane		Substances	Gordon Woods	8	3
The Meissner effect		Back Page	Tom Halstead	8	3
That's the Spirit!	Product authenticity in scotch whisky industry. Analytical chemistry. Malting, Detection in HPLC		Ross Aylott	8	4
Ventolin, The Discovery of	Asthma, Drug Development, Organic synthesis. Salbutamol, Adrenaline.	Chemistry and Health	Peter O'Brien	8	4
Adsorption and inclusion	Methods of analysis, adsorbing molecules, including molecules	Project Page	Derek Denby	8	4
Molecules at an exhibition	by John Emsley	Worth Reading	John Garratt	8	4
The Peg Method		Remember, Remember	Tom Keogh	8	4
Chemistry on Track	Thermit Welding	In Pictures	Anne Hodgson	8	4
Ethanoic Acid	Vinegar, Formulae, weak acid, manufacture	Substances	Gordon Woods	8	4
Every increasing Circles	Cyclic polymers. Cyclic silicones have some remarkable properties and a range of useful applications. Gel permeation chromatography, neutron scattering, glass transition temperature.		Tony Semlyen	8	4

Identifying Reactions	Acid base reactions, redox reactions	Top Tips	Margaret Ferguson	8	4
Recrystallisation		Lab Page	Dave Lindsey	8	4
Energy, bonding and haloalkanes		Answerback	Robin Hillman	8	4
The Problem with PET	Rates and mechanisms	Research Team	Tynemouth College	8	4
Wobbly Chemistry	Collagen and gelatin	Back Page	Anne Hodgson	8	4
Lighter Flints and Luminescence	Some chemistry of the rare earth elements.		Helen Aspinall	8	5
Phenol	Manufacture, Bulk uses of, preparation of nylon	Substances	Gordon Woods	8	5
Chemicals in Foods and Drinks	Assessing the risks, water	Chemistry and Health	Norman Greenwood	8	5
Identifying reactions (II)	Ionic precipitation, complex formation	Top Tips	Margaret Ferguson	8	5
Brewer's Art	chemistry of beer making	In Pictures	Nigel Lowe	8	5
Granular Detergent Technology Development	Procter & Gamble	All in a Day's Work	Louise Scarry	8	5
Chemistry at University	Courses, counting the cost, entry requirements	Encounter	Roger Mawby	8	5
Phonetic system		Remember, Remember	Tom Keogh	8	5
In the Dark Yellowing of alkyd-based paints	Conjugated systems	Research Team	Robert Carney	8	5
Simply red, naturally	Cochineal, kermes, madder, lac. Analysis, liquid chromatography, dyes		Anita Quye	8	5
Obtaining marks from obtaining metals		Answerback	Andy Bethell	8	5
Lac resin and dye producer		Back page	Anita Quye	8	5
Alchemists, The New	Heavy Ion Research GSI		Robert Matthews	9	1
Black, Joseph	Latent Heat, distillation.	200 Years Ago	Peter Ellis	9	1
Changing State	Forces between particles, states of matter, changing state of water Evaporation versus boiling	Revision Note	Peter Battye	9	1
Concentration of Copper Ions		Project Page	Derek Denby	9	1

Gemstones & Minerals	Crystallography,		Sir John Meurig Thomas	9	1
Gakistuf!	Making "silly putty"	Making & Doing	Chris Ennis	9	1
Catalysts		Green Chemistry	Stewart Tavener & Dave Adams	9	1
Egyptian Blue and Nefertiti		Back Page	Sir John Meurig Thomas	9	1
Green Sites		Chemistry on the Web	Chris Ennis	9	1
Ethanol as a Fuel		Answerback	Frank Harris	9	1
Gemstones	gems and minerals	In Pictures	Brendan Keely & John Meurig Thomas	9	1
Really Wild Dyes	Dyes, colour, natural plants		Anita Quye	9	2
Refluxing and distillation		Lab Page	David Lindsey	9	2
Calculating yields in chemical reactions		Top Tips	Alasdair Thorpe	9	2
The Nobel prize		Chemistry on the Web	Chris Ennis	9	2
Dr Beaker	logic problem	Making and Doing	Tina Overton	9	2
Aluminium	metal/non-metal, amphoteric oxide and hydroxide, aluminium chloride, reactions	Substances	Gordon Woods	9	2
Fireworks	flame tests for metal salts	In Pictures	Anne Hodgson	9	2
Green beans?	tin plate production, scanning electron microscopy, electrolytes	Green Chemistry	Mike Lancaster	9	2
Edward Frankland (1825-1899)	structural formulae	100 years ago	Peter Ellis	9	2
The natural solution	future technologies research at BT Labs.		Glenn Proctor	9	2
Solving a chemical jigsaw	deducing the identity of organic compounds	Answer Back	Andy Bethell	9	2
Nitroglycerine	from the book <i>The Big Bang</i> . Dynamite. TNT	Worth Reading	G I Brown	9	2
Exam tactics	organising revision, time management reading questions, avoiding mistakes	Revision Note	Peter Battye	9	2
The spider's superfibre	protein structure of spider silk	Back Page	Sara Sleigh	9	2
				9	2
Positively Plastic	Polyethylene, synthetic polymers, polymer architectures, stereolithography or rapid prototyping, molecular bar codes		Julia Higgins	9	3

Structure & Bonding	Bonding, intramolecular forces	Answerback	Peter Battye	9	3
Environmental Solutions	Solvent usage, greening solvents, natural alternatives.	Green Chemistry	Nick Hazel	9	3
Bringing Chemistry to Life	Catalysis in cells, Hard mineral compounds, inorganic medicines		Robert Williams	9	3
World of Visual Chemistry		Chemistry on the Web	Chris Ennis	9	3
Transition Metal complexes I		Revision Note	Peter Battye	9	3
Caesium	Discovery, isolation. Chemical & physical properties, isotopes	Substances	Gordon Woods	9	3
Architecture with Molecules	ATP synthase, metalloporphyrins, Long linear carbon chains, C ₆₀ , the buckytubes and DNA		Harry Kroto	9	3
University Lecturer		All in a Day's Work	Peter O'Brien	9	3
The Dome	polytetrafluoroethene (PTFE)	Back Page	Anne Hodgson	9	3
Environmental Pressure	Electricity, SO _x emissions, coal-fired stations, NO _x emissions.		Donald Miller	9	4
Sulfur		Substances	Gordon Woods	9	4
Transition Metal complexes II	Ligand exchange, Redox, Bidentate ligands,	Revision Note	Peter Battye	9	4
Plants of the future	Genetically modified organisms.	Green Chemistry	Nigel Oliver	9	4
A site for you	A-level chemistry	Chemistry on the Web	Chris Ennis	9	4
Generating electricity		In Pictures	John Vernon	9	4
Taking the Pain out of Plasters	Glass transition temperatures, acrylic copolymers, light-switchable PSA		Iain Webster	9	4
Making Inks Stick	Adhesion promoters, new product development, titanium and its compounds, ink.	Focus on Industry	Martin Partridge	9	4
Drawing enthalpy cycles		Top Tips	Alasdair Thorpe	9	4
Dr Beaker	logic problem	Making and doing	Tina Overton	9	4
Phosphorus and friends		Answer Back	Maurice Carmody	9	4
Calorimetry	Measuring enthalpies of combustion, the bomb calorimeter	Lab Page	Alasdair Thorpe	9	4

The Galileo Thermometer	Archimedes principle. Density changes with temperature. Buoyancy	Back Page	Anne Hodgson	9.	4
Nanotechnology	STM, Looking at Atoms, Writing with Atoms, The C ₆₀ amplifier		Chris Ennis	9	5
Surf n Learn		Chemistry on the Web	Chris Ennis	9	5
Atom efficiency and catalysis	The E factor, atom efficiency/low salt technologies Atom efficiencies of stoichiometric vs. catalytic oxidation, ibuprofen manufacture	Green Chemistry	Roger Sheldon	9	5
Testing halide ions	Inorganic chemistry, focusing on Group 7 of the periodic table	Answer Back	Helen Neal	9	5
Monitoring local air quality		In Pictures	Elizabeth Bates	9	5
An ion brew for cleaner chemistry	Catalysis in ionic liquids,		Paul Dyson	9	5
Organic Synthetic Pathways		Revision Note	Peter Battye	9	5
Nitric oxide as a synthetic reagent	Reactions of nitric oxide as a free radical	Research Team	Kings School	9	5
Agrochemical Registration Specialist		All in a Days Work	Karen Walker	9	5
Chemistry in Slow Motion	Ahmed Zewail Nobel Prize - femtochemistry. Studying reactions as they happen	Encounter	Nobel Foundation	9	5
The Hydrogen Car	fuel cells	Back Page	Anne Hodgson	9	5
Riches from the Seas	Alkalis, Leblanc process, solvay process, carbonates, iodine, fertilisers, polysaccharides, alginates		Margaret Ferguson	10	1
Testing Much more than fertilisers	Fertilisers, acids and bases, moles, volumes and concentrations, redox, equilibrium	Answer Back	Maurice Carmody	10	1
To boldly go	Ozone layer, water cycle, astrobiology, global warming, chemistry in space	Chemistry on the Web	Chris Ennis	10	1

Cyanides	Dot and cross diagrams, acids and bases, complex formation, oxidation numbers, equilibrium, Le Chatelier's principle, nucleophilic substitution reactions in halogenoalkanes, organic syntheses	Substances	Peter Battye	10	1
Interpreting Mass Spectra	Mass spectroscopy, molecular ions, fragmentation, isotopes	Top Tips	Alasdair Thorpe	10	1
Visual Elements	art inspired by the periodic table	In Pictures	Anne Hodgson	10	1
Pottery	Giant covalent structures, equilibrium, acids and alkalis, thermal decomposition, transition-metal chemistry (redox, complex formation, coloured compounds), phase diagrams, eutectic mixtures, moles		Stephen Rogers	10	1
Assessing the risks in practical work	Hazards, risks, safety, risk assessment	Lab Page	Alasdair Thorpe	10	1
Dyes and Dyeing	Azo dyes, intermolecular forces, colorimetry, acid-base indicator	Project Page	Derek Denby	10	1
DIBs	Absorption and emission spectroscopy, polycyclic aromatic hydrocarbons	Chemistry in Space	Andrew Shaw	10	1
Reaching for the Sky	Redox reactions, combustion		Gerry Ottewill	10	1
Hydrogels - a very versatile material	Medical implants, polymer networks, super-absorbent materials, hydrogels, hydrophilic compounds, polymers		Kevin Yeomans	10	2
Knowledge and how to apply it	Acids and bases, transition-metal chemistry, factors determining the reactions used in industrial processes	Answer Back	Peter Battye	10	2
Chemistry in the Shed	Experimental chemistry, crystal growing, chemical misconceptions, science jokes	Chemistry on the Web	Chris Ennis	10	2
Interpreting NMR spectra	Proton NMR spectroscopy, chemical shift, peak splitting.	Top Tips	Alasdair Thorpe	10	2

Chlorine	The electrolysis of brine, redox reactions, oxidation states, uses of chlorine, manufacture and uses of chlorine compounds	Substances	Gordon Woods	10	2
Phosphorus		In Pictures	Brendan Keely	10	2
Conkering Cordite	Combustion, propanone (ketone) polymerisation, cellulose, propanone, gunpowder		Wilson Flood	10	2
The Shocking History of Phosphorus	Phosphorus, luminescence	Worth Reading	John Emsley	10	2
Fun with hydrogels		Making and Doing	Kevin Yeomans	10	2
A date with the high and mighty of Science		Encounter	Kings School	10	2
What a Dusty Universe	Spectroscopy, formation of molecules, adsorption onto surfaces, astrochemistry, simple chemical reactions	Chemistry in Space	Serena Vita	10	2
Fire Blocking gel	hydrogel polymer	Back Page	Anne Hodgson	10	2
What is isomerism	Structural isomers, chain isomerism, position isomerism, function group isomerism, stereoisomers, geometric isomerism, enantiomers, optical isomerism (Chirality), stereoisomerism in organic compounds	Revision Note	Gwen Pilling	10	3
Virtually isomeric	isomerism	Chemistry on the Web	Chris Ennis	10	3
Looking in the mirror	Chirality, optical isomerism, enantiomers, chiral drugs, asymmetric synthesis, biological properties of chiral molecules, asymmetric catalysis and enzymes, use of skeletal (stick) formulae		Adam Nelson	10	3

Writing Structural isomers using stick formulae		Top Tips	Peter Battye	10	3
It's a chiral world		In Pictures	Matt Brown	10	3
A bitter isomerisation	Functional group isomers, alcohols and ketones, fermentation	Substances	Peter Battye	10	3
Assorted alcohols	Primary, secondary and tertiary alcohols, oxidation reactions of alcohols	Answer Back	Andy Bethell	10	3
3D models	Building models of molecules, computer-aided modelling	Making and Doing	Chris Ennis	10	3
What's in a Mixture	Positional isomers, synthesis, amines, ¹ H NMR spectroscopy, oxidation, reduction		Peter O'Brien	10	3
Space: the first and last great brewery	Interstellar medium, ethanol in space, radio astronomy, radical chemistry, molecular synthesis in space, cosmic rays, gas-phase interstellar chemistry, theory of the possible biological role of organic molecules from space, ion-molecule reactions	Chemistry in Space	Chris Mayhew & Richard Kennedy	10	3
Armour & Steel Making	Microscopic analysis of suits of armour. Extraction of iron, steel production, redox reactions, properties of metals.		Alan Williams	10	4
Correcting Fluid correct?	Stereoisomerism, geometrical isomerism, optical isomerism. Reactions of alkenes, isotopic abundance, reactions of aromatic compounds, reaction mechanisms, mass spectroscopy.	Answerback	Peter Battye	10	4
Tackling Chemical Calculations	Balanced equations, moles, concentrations.	Top Tips	Alasdair Thorpe	10	4
Malcolm Cunnington: The man in the white coat	developmental research chemist, BP Amoco	Encounter	Lisa Cox	10	4

Oxidation of alcohols	Primary, secondary and tertiary alcohols, oxidation/reduction, tests for alcohols, ketones, carboxylic acids, aldehydes.	Lab Page	Alasdair Thorpe	10	4
Carbon Monoxide	Bonding, combustion, redox reactions, extraction of metals, dot and cross diagrams. Electrochemical cells, enthalpy, entropy and Gibbs free energy changes.	Substances	Peter Battye	10	4
Chemistry, Colour & Light	dyes, fluorescence, flame tests, chemiluminescence	In Pictures	Anne Hodgson	10	4
Colour in Diamonds	Electron orbitals, structure of diamond, atomic absorption spectroscopy, colour, crystal defects, electromagnetic spectrum.		Rossllyn Nicholson	10	4
No Worries		Chemistry on the Web	Chris Ennis	10	4
Amines	Amines, reaction mechanisms, bases, reduction, shapes of molecules, nucleophiles	Revision Note	Peter Battye	10	4
Beagle 2	Isotopes, spectroscopic analysis, combustion, carbon cycle.	Chemistry in Space	Colin Pillinger	10	4
A close encounter	Near Earth Asteroid Rendezvous. (NEAR) of Shoemaker spacecraft with asteroid Eros. X-ray fluorescence	Back Page	Anne Hodgson	10	4