

Feature list for Chemistry Review

Last updated 29 January 2009

LAB PAGE

Recrystallisation - purification of solids	2(5)
Thin-layer chromatography TLC	3(1)
Making standard solutions	3(2)
Using a separating funnel	3(3)
Distillation	3(4)
Melting point determination	3(5)
Measuring pH	4(1)
Extracting and studying enzymes	4(2)
Measuring volume	4(3)
Solvent extraction	4(4)
Colorimeters	4(5)
Growing crystals	5(1)
Safe heating	5(2)
Observing	5(3)
Electrochemical cells	5(4)
Steam Distillation	5(5)
Volumetric Analysis	6(1)
Testing for Metal Ions	6(2)
Separating solids from Liquids	6(4)
Handling Gases	6(5)
Testing for Gases	7(1)
Measuring the Boiling Point of a Liquid	7(5)
Measuring pH	8(1)
What is Chromatography	8(2)
Recrystallisation	8(4)
Refluxing and distillation	9(2)
Calorimetry	9(4)
Assessing the Risks in Practical Work	10(1)
Oxidation of alcohols	10(4)
Experimental Error and error analysis	11(2)
Making a standard solution	12(2)
Colorimetry	12(3)
Observing and Recording	13(1)
Distillation	14(1)
Not all indicators are equal	14(2)
Thin Layer Chromatography	14(3)
Melting Points and Boiling Points	14(4)
Electrode Potentials	15(3)
How to be a lab success: using QuickFit apparatus	16(1)
How to be a lab success: titrations, crystals, separating and mixing	16(4)
Identifying an unknown organic compound	17(3)

TOP TIPS

Getting the Language Right	7(1)
----------------------------	------

Oxidation states	7(2)	
The Shapes of Molecules	7(3)	
Calculations Involving Amounts	8(1)	
Identifying Reactions (1)	8(4)	
Identifying Reactions (2)	8(5)	
Calculating yields in chemical reactions	9(2)	
Drawing enthalpy cycles	9(3)	
Interpreting Mass Spectra	10(1)	
Interpreting NMR spectra	10(2)	
Writing structural isomers using stick formulae	10(3)	
Tackling chemical calculations	10(4)	
Know Your Ks	11(4)	
Understanding electrode potentials	12(1)	
Using electrode potentials	12(2)	
Balancing equations	12(3)	
Using oxidation states	12(4)	
Van der Waals Forces	13(1)	
Classifying Organic Reactions		13(2)
Measuring the rate of a chemical reaction	14(1)	
Born Haber Cycles	14(4)	
What's in a word?	15(1)	
Watch your language!	15(2)	
Hess's Law	15(4)	
Guidelines for drawing organic structures	16(1)	
Shapes in inorganic chemistry		16(2)
Drawing lab diagrams	16(4)	
Representing chemical reactions	17(1)	
Drawing reaction mechanisms		18(1)
Drawing radical reaction mechanisms		18(2)

REVISION NOTE

Bonding between molecules	1(1)	
Spectroscopy	1(2)	
Electrolysis	1(3)	
Shapes of molecules and electron pair repulsion theory	1(4)	
Interpreting mass spectra	1(5)	
What makes a reaction go?	2(1)	
Redox (and oxidation numbers)	2(2)	
Energy profiles	2(3)	
An overview of organic reactions	2(4)	
Acids	2(5)	
The Periodic Table	3(1)	
Testing for functional groups	3(2)	
A new angle on bonding	3(3)	
Solidification of solutions	3(4)	
Melting point determination	3(5)	
The transition metals	4(1)	

Naming aliphatic organic compounds	4(2)
Keeping track of energy changes	4(5)
Drawing organic compounds	5(1)
Born-Haber cycles and lattice energies	5(2)
Melting and Boiling Points	5(3)
Keeping things short	5(4)
Acids & Bases	5(5)
Acid-base indicators and buffer solutions	6(1)
Ultraviolet and visible spectra	6(2)
Kinetics	6(4)
Group 4	6(5)
Identifying Gasses	7(1)
Intermolecular bonds	7(2)
Isomerism	7(3)
Halogens	8(1)
Spider Diagrams	8(2)
The Alkanes	8(3)
Changing State	9(1)
Exam tactics	9(2)
Transition Metal complexes I	9(3)
Transition Metal complexes II	9(4)
Organic synthetic Pathways	9(5)
What is Isomerism?	10(3)
Amines	10(4)
Gases Part 1	11(1)
Calculations involving masses	11(2)
Gases Part 2	11(3)
Trends in period 3 elements	11(4)
The elements in Group 2	12(2)
Titrations	12(3)
Nucleophiles	12(4)
Moles – the basics	13(1)
Calculating pH	13(2)
Carboxylic Acids	13(3)
Establishing a rate equation	14(2)
Aliphatic organic compounds	15(1)
Summary of reactions for benzene/aromatic compounds	15(2)
From creaking joints to saving a steamship	15(3)
Bonding: sticking atoms together	16(1)
Interpreting infrared spectra	16(2)
Classifying organic reactions	16(3)
Trends in ionisation energy	17(3)
Acids and bases: a whistle-stop tour	18(2)
Acids and bases: developing ideas further	18(3)

SUBSTANCES

Tin and lead	4(1)
Iodine	4(2)
Methyl mercaptan	4(3)

Sodium carbonate	4(4)	
Argon - in the spotlight	4(5)	
Helium		5(1)
Platinum	5(2)	
Nitric Acid	5(3)	
Propanone	5(4)	
Iodine	5(5)	
Hydrogen Peroxide	6(1)	
Alumina	6(2)	
Silica	6(3)	
Nitric Oxide	6(4)	
Mixed Oxides	6(5)	
Chlorides	7(1)	
Potassium Chloride	7(2)	
Aluminium Chloride	7(3)	
Cl ₄ and SiCl ₄	7(4)	
HCl	7(5)	
Butane	8(3)	
Ethanoic Acid	8(4)	
Phenol	8(5)	
Aluminium	9(2)	
Caesium	9(3)	
Sulfur	9(4)	
Cyanides	10(1)	
Chlorine	10(2)	
A bitter isomerisation	10(3)	
Carbon Monoxide	10(4)	
Strontium	11(1)	
Gallium	11(2)	
Selenium	11(3)	
Hydrogen	12(1)	
Chromium	12(3)	
Bromine	12(4)	
Hydrogen Sulfide	13(1)	
Titanium	13(3)	
Nitrogen Oxides	14(1)	
Ozone	14(2)	
Carbohydrates	14(4)	
Carboxylic acids	15(1)	
Hydrogen: alkali metal or halogen?	15(2)	
Lithium	15(3)	
Supercritical carbon dioxide	16(3)	
Silicones and silanes	16(4)	
Platinum: not just for jewellery	17(4)	
The fight against bacteria: every cloud has a silver lining	18(1)	
Deadly beauty	18(3)	

ANSWER BACK

JMB

David Edwards The main features of the atomic spectrum of hydrogen	1(1)
JMB Graham Moyce A question of organic reactions	1(2)
University of London Schools Examinations 1989 Frank Harris Chemistry from group V	1(3)
JMB David Edwards A question of ideality	1(4)
Oxford and Cambridge Examinations Board Geoff Mines Rates and orders of reaction	1(5)
JMB David Edwards Acids and equilibria	2(1)
JMB David Edwards Testing and estimating ions	2(2)
Salters' Advanced Chemistry Frank Harris Alternative fuels	2(3)
JMB David Edwards Have you got redox potential	2(4)
Salters' Advanced Chemistry Margaret Ferguson A question of applying knowledge	2(5)
Alistair Fleming Silicone polymers	3(1)
JMB Syllabus B paper 2, Section B, 1990 Corinne Slater Distinguishing between pairs of organic compounds	3(2)
Nuffield Chemistry Special Study 1989 Max Perrin The Chemistry of Life	3(3)

Oxford & Cambridge, Paper 3 1992 Robert Tims Social Economic, Environmental and Technological aspects of Chemistry	3(4)
Nuffield Paper 2, ULEAC 1988 Derek Jones Born-Haber cycle and lattice energies	3(5)
JMB 1991, paper IIB Sue Howes A Balancing Act	4(1)
Salters' Advanced Level Chemistry Mike Shipton Petroleum technology	4(2)
Geoff Lloyd The importance of revision	4(3)
JMB Syllabus A and Syllabus B 1991 Sue Howes Directing aromatic substitution	4(4)
Salters A level examinations 1994 Frank Harris Mr Midgeley's discovery CFCs	4(5)
Nuffield Chemistry 1993, Paper 1 Alaister Fleming Tackling calculations	5(1)
Salters A-level 1994 Geoff Lloyd The mystery of the dead deer	5(2)
Oxford and Cambridge Paper 3, Section A 1992 Richard Gilbert Ammonia	5(3)
NEAB Paper B Section IIA, 1995 Transition Metals David Nicholls	5(4)
Salter A level Paper 1 1995 Oxford & Cambridge Schools Examinations Board Frank Harris An Unusual Beetle	5(5)

Reactions of Halogenoalkanes with Potassium Hydroxide - NEAB Geoff Hallas	6(1)
A Potentially Dangerous Fertiliser - Salters Frank Harris	6(2)
Knocking Your Organic Chemistry into Shape - Oxford & Cambridge Peter Simpson	6(3)
An Organic Whodunit - WJEC Peter Blake/Keith Warren	6(4)
Copper Chemistry - Salters Frank Harris	6(5)
Structures Equations & Mechanisms - NEAB Graham Curtis	7(1)
Kinetics - NEAB Andy Bethell	7(2)
Planning Your Chemistry - Nuffield Alastair Fleming	7(3)
Periodic Pattern - NEAB Peter Battye	7(4)
Chromatography & Structure of Dipeptide - Nuffield Robin Hillman	7(5)
Complex Information - OCSEB Brian Parker	8(1)
Does faster mean further? - WJEC Peter Blake and Keith Warren	8(2)
Organic Chemistry - NEAB Peter Battye	8(3)
Energy, bonding and haloalkanes - Nuffield Robin Hillman	8(4)
Obtaining Marks from obtaining Methods - NEAB Andy Bethell	8(5)
Ethanol as a Fuel, Salter's Frank Harris	9(1)
Solving a chemical jigsaw puzzle - NEAB	9(2)

Andy Bethell	
Structure and bonding - NEAB Peter Batty	9(3)
Phosphorus and friends - EDEXCEL Maurice Carmody	9(4)
Testing Halide Ions Helen Neal (AEB)	9(5)
Testing much more than fertilizers EdExcel	10(1)
Knowledge and how to apply it - NEAB	10(2)
Assorted Alcohols - (AQA)	10(3)
Correcting Fluid correct? - NEAB	10(4)
Redox rights and wrongs - Edexcel	11(1)
Sniffing for extra marks - WJEB	11(2)
Patterns in the periodic table Scottish Higher	11(3)
Oxidation and reduction at AS and A2 - AQA	11(4)
Electronic Structure and Chemical Bonding Nuffield Chemistry - (Edexcel)	12(1)
Familiar and less familiar acids -WJEC	12(2)
Fuelling the Fire - OCR	12(3)
Particles, bonding and shapes - AQA	12(4)
Get in the Right Group - OCR	13(1)
Organic Synthesis – AQA	13(2)
Synoptic Papers and Synoptic Questions – Edexcel	13(3)
Longer Responses - AQA	13(4)
Halons and the demise of the ozone - OCR	14(1)
Tales of the Unexpected June 2003 - WJEC	14(2)
Acids, bases, pH and buffers - AQA	14(3)

Any Old Ion? Chemistry by Design – Salters - (OCR)	14(4)
Equilibrium, Enthalpy, Entropy ... and Extras A2 - Salters (OCR)	15(1)
Photochemical smog - Salters Advanced Tony Lewis	15(2)
Keep in Contact, Edexcel - AS Maurice Carmody	15(3)
Why do endothermic reactions happen? - A2 - AQA Graham Curtis	15(4)
Driven by Enthalpy, Edexcel - AS Maurice Carmody	16(1)
Ironing out the problem, Edexcel - A2 Maurice Carmody	16(2)
A synoptic organic question, AQA - A2 Graham Curtis	16(3)
Extracting chemistry with a metal, Salters (OCR) - AS David Billett	16(4)
A weighty problem?, Salters (OCR) - A2 Maurice Carmody	17(1)
Genning up on nitrogen, AQA Graham Curtis	17(2)
Changing gear to AS, Salters (OCR) - AS David Billett	17(3)
Glorious glycerol, Salters (OCR) - A2 Maurice Carmody	17(4)
Getting into shape with isomers, AQA - AS Maurice Carmody	18(1)
Communicating chemistry, Salters (OCR) - AS David Billett	18(2)
Watch your language - AQA Graham Curtis	18(3)
Sulfuric acid, Edexcel, Maurice Carmody	18(4)

PEOPLE/ALL IN A DAY'S WORK

Hart, Judith	Freelance Journalist	1(3)	
Knigh, Barry	Ancient Monument Laboratories (English Heritage)	1(4)	
Gregory, Peter	Senior Scientist ICI Specialty Colours Group	2(3)	
Hamer, Pam	Forensic Scientist	2(5)	
Senior, Clare	Analytical Chemist in Packaging Research	3(4)	
Crawley, Frank	Chemical Engineer (ICI, BP) Authority on safety of industrial processes	4(3)	
Tarasova, Natalia	Radiation Chemist Professor of Industrial Ecology, Mendeleev University of Chemical Technology, Moscow	4(4)	
Hutchinson, Ann	Process Chemist Rhône-Poulenc Agriculture	5(1)	
Sutton, Jane	Press and Publicity Officer Royal Society of Chemistry	5(2)	
Osman, Robert	Plant Manager Pigment Dispersion Plant Yorkshire Chemicals	5(3)	
Owen, Nick	Innovations Marketing Manager Hickson & Welch	5(4)	
Hewitt, Chris	Brand Manager, Aldrich UK	5(5)	
Hazel, Nick	Issues Manager, BP Chemicals	6(1)	
Hodgson, Anne	Chemistry Dept	6(2)	
Levitt, Melissa	Commissioning Editor		6(5)
Hockley, Sian	Patent Agent	7(5)	
Julie Hall	Antarctic Research	8(2)	
Louise Scarry	Granular Detergent Technology	8(5)	
O'Brien, Peter	University Lecturer	9(3)	
Walker, Karen	Agrochemical Registration Spec.	9(5)	
Tinkler, Suzanne	Confectionery product developer	11(4)	
Dave Wevill	Antarctic Survey	13(2)	
Rachel Barnham	Forensic Scientist	14(3)	
Anthony MacDonald	Biomedical researcher	18(4)	

IN PICTURES

Structure of Insulin	1(1)
A Closer Look at Clay	1(2)
A Hydrogen Plant	1(3)
The work of a Conservator	1(4)
Models of Atoms	1(5)
Different forms of carbon	2(1)
The Periodic Table	2(2)
What happens in a Bunsen flame?	2(3)
Fast & Fresh (sandwiches)	2(4)
From dolomite to magnesium oxide	2(5)

Versatile silicones	3(1)	
Infrared spectrometry	3(2)	
Gold, frankincense and myrrh		3(3)
History of the atmosphere	3(4)	
Chemistry can detect faulty genes	3(5)	
A prize collection(Nobel prize winners & stamps)	4(1)	
Gas chromatography	4(2)	
Water	4(3)	
Molecular fossils	4(4)	
The rocaglamide story		4(5)
Getting your pinta from the cow	5(1)	
Salt of the earth	5(2)	
Fractional Distillation	5(3)	
Nobel	5(4)	
Nuclear Magnetic resonance	5(5)	
First Class Organic Chemistry		6(1)
Ways of representing proteins		6(2)
Chemistry in the Open Air	6(3)	
Mass Spectrometry	6(4)	
Water Treatment	6(5)	
A Breath of Fresh Air	7(1)	
Chocolate	7(2)	
Challenge of Materials		7(3)
Thermal Analysis	7(4)	
Seeing Atoms	7(5)	
pH: Who needs to Know	8(1)	
Medicines in the Garden	8(2)	
Chemistry under the Microscope	8(3)	
Chemistry on track	8(4)	
The Brewer's Art	8(5)	
Gemstones	9(1)	
Fireworks	9(2)	
Molecules of the Millennium	9(3)	
Generating Electricity	9(4)	
Testing Air Quality	9(5)	
Visual Elements	10(1)	
Phosphorus	10(2)	
It's a chiral world!	10(3)	
Chemistry Colour & Light	10(4)	
Food to Dye for	11(1)	
Antioxidants	11(2)	
Biodiesel	11(3)	
Polymer protected professionals	11(4)	
Dyeing Hair	12(1)	
The Barking Dog	12(2)	
Around the World with Chemistry	12(3)	
Modelling the double helix	12(4)	
Machair	13(1)	
The Heat is on	13(3)	
Molecules in a Virtual World	13(4)	
The Magnificent 7: Magic Bullets of 21 st Century	14(1)	

Science is Art	14(2)
Antifreeze	14(3)
Magnetic Resonance Imaging	14(4)
Probably the most important reactions in the world	15(2)
Camping with chemistry	15(3)
Rocks that glow in the dark	15(4)
Stimulating chemistry	16(1)
Copper on tap?	16(2)
Seeing the nanoworld: atomic structures and reaction dynamics	17(2)
Getting plastered	17(4)
The disguises of carbon	18(1)
Hydrogen bonds: holding the world together	18(4)

BACK PAGE

Crystal Gardens	4(1)
Horse Doping	4(2)
Watercycle	4(3)
Column Chromatography	4(4)
Mixing Colours	4(5)
The Flame Test	5(1)
Growing a Crystal Tree	5(2)
Chemiluminescence	5(3)
Pyrrole Pigments	5(4)
Stained Glass	5(5)
Winning Crystals	6(1)
Salt Mining	6(2)
The Island That Time Forgot	6(3)
Rock n'Roll Eggs	6(4)
Virtual Reality	6(5)
Oceans of Mercury	7(1)
Up in Smoke	7(2)
Women of Achievement	7(3)
Black Smokers	7(4)
Something lost in the translation	7(5)
The Welding Torch	8(1)
Drugs in the Hay	8(2)
The Meissner effect (collagen/gelatin)	8(3)
Wobbly Chemistry	8(4)
Lac	8(5)
Egyptian Blue & Nefertiti	9(1)
Spiders superfibre	9(2)
The Dome	9(3)
Galileo Thermometer	9(4)
Hydrogen Car	9(5)
Reaching for the Sky	10(1)
Fire-blocking gel	10(2)
A different slant on DNA	10(3)
A close Encounter	10(4)
Thread of Science	11(1)
Glowing Fireflies	11(2)

Where there's smoke there's gravity	11(3)	
Displaying vision: LEP	11(4)	
Beyond the Molecules		12(1)
Microdiamonds	12(2)	
Sniffing for Trouble	12(3)	
Airbags	12(4)	
Graphite polyhedral crystals	13(1)	
Life under Ice	13(2)	
Molecules that grow on trees!	13(3)	
Three forms of Elemental Carbon	13(4)	
Like a Diamond in the Sky	14(1)	
Geothermal Energy	14(2)	
Swimming in a nano sea	14(3)	
Brightening the Future	14(4)	
The world's smallest test tube		15(1)
Little dragon	15(2)	
Iron meteorites on Mars	15(3)	
I'm forever blowing colourful bubbles	15(4)	
DNA Origami	16(1)	
A trip to the apothecary's	16(2)	
Sniffer bees	16(3)	
Raindrops on Titan	16(4)	
Dragon's breath	17(1)	
Fireflies: a postcard from Sri Lanka	17(2)	
...and then the heav'n espy	17(3)	
Wonderful woad and incredible indigo	17(4)	
Chemistry detectives	18(1)	
Why do onions make you cry?	18(2)	
Dinosaur mummy	18(3)	
Periodic table	18(4)	

MAKING & DOING

Model of buckminsterfullerene	1(1)
Models of Clay	1(2)
Elementary crossword	1(3)
Asymmetric crystals of tartaric acid salts	1(4)
Spreadsheets for calculations	1(5)
Gas testing crossword	2(1)
Models of zeolites	2(2)
Wordsearch	2(3)
Cooking with dough	2(4)
Crossword	3(1)
Puzzle Page	3(2)
Solid liquid	3(4)
Model of DNA molecule	3(5)
Elementary spelling	4(1)
History of the Bunsen burner	4(3)
Using natural dyes	4(5)
Chemical definitions	5(1)

Crystal-growing challenge	5(2)
The sweet smell of danger	5(3)
Quiz	5(4)
Chemical Dingbats	5(5)
Polymer Word Search	6(1)
Anagrams	6(2)
Dr Beaker	6(5)
Element Search	7(1)
Chemistry is Fun	7(2)
Surface Tension	7(3)
Logical Chemistry	8(1)
Neils Bohr puzzle	8(2)
Gakistuf	9(1)
Dr Beaker	9(2)
Dr Beaker	9(4)
Fun with hydrogels	10(2)
3D models	10(3)
Fizz: Making sherbet	11(1)
Calculating Carbon Dioxide	11(2)
Popcorn Explosions	12(1)
Bubbles	12(3)
DIY DNA	12(4)
Chemical Dingbats	14(1)
More Chemical Dingbats	14(2)
Investigation	15(1)
Chemical crossword	15(2)
Chemical Sudoku	15(3)
Elemental Sudoku	15(4)
Poetic Chemistry	16(1)
Elementary crossword	17(1)
Trace elements	17(2)
Radioactive Sudoku	17(3)
Hydrogen bonds: experiments to try at home	18(4)

PROJECT PAGE

Decomposing hydrogen peroxide	5(1)
What's in water	5(2)
The Reactions of metals with acids	5(3)
Making light of Project work	5(4)
There's more to Vitamin C than Brussels	5(5)
Reactions that don't add up	6(1)
Clock Reactions	6(2)
Aspirin	6(3)
Investigating Enzymes	6(4)
How Accurate are Titrations	7(1)
What's in Wine	7(3)
Ion Exchange Resins	7(4)
Oscillating Reactions	8(3)
Adsorption and inclusion	8(4)
Concentration of Copper Ions	9(1)

Dyes and Dyeing	10(1)	
A Reaction that speeds itself up	11(3)	
Anyone for Spaghetti and Peas?	11(4)	
How quickly does bleach deteriorate?		16(3)

SCIENTISTS OF SUBSTANCE

Mendeleev, creator of the chemists' logo	13(1)	
John Newlands	13(2)	
Harry Moseley		13(3)
Fritz Haber	13(4)	
John Priestly	14(1)	
Sir William Ramsay	14(2)	
Sir Humphry Davy	14(4)	
Linus Pauling	15(1)	
Thomas Midgely	15(2)	
Gilbert N. Lewis: his acids and bases	15(3)	
Glenn T. Seaborg: creator of elements	15(4)	
Lise Meitner: radiochemist, physicist and co-discoverer of nuclear fission	16(1)	
Ida Tacke-Noddack: co-discoverer of rhenium and nuclear fission	16(2)	
Rosalind Franklin: physical chemist, X-ray crystallographer and DNA pioneer	16(3)	
Marguerite Perey: discoverer of francium	16(4)	
Organic growth from Deutsche Chemiker	17(1)	
More organic growth from Deutsche Chemiker:	17(2)	
Liebig and Wöhler		
Seeds of structural organic chemistry: August Kekulé	17(3)	
Adolf von Baeyer and Victor Meyer	17(4)	
Avogadro: count and counting chemist	18(1)	
John Dalton: Quaker scientist and law maker		18(2)
van der Waals: famous for recognising feeble forces	18(3)	
Michael Faraday	18(4)	

CHEMISTRY ON THE WEB

Webelements	6(1)	
Finding information about degree courses	6(2)	
Molecule of the Month	6(3)	
Chemystery	6(4)	
Buckminsterfullerenes		7(1)
Green pages	7(2)	
Ring the changes with Chime	7(3)	
Life, the universe and the electron	7(4)	
Poison	8(1)	
Fire!	8(2)	
Green sites	9(1)	
The Nobel prize	9(2)	
A world of virtual chemistry	9(3)	

A site for you	9(4)	
Surf 'n' learn	9(5)	
To boldly go...	10(1)	
Chemistry in the shed!		10(2)
Virtually isomeric	10(3)	
No worries!	10(4)	
Chocolate gingers	11(1)	
The virtual library	11(2)	
Plastastic!	11(4)	
Find your way with the web index	12(2)	
Catalysis for success!	12(3)	
The double helix 50 years on	12(4)	
Analyse this!	13(1)	
British Antarctic Survey	13(2)	
Transition metals in organic chemistry	13(4)	
Light: the fuel of life	14(1)	
Chemistry by numbers		14(2)
A greener industry	14(3)	
Chemical role models	15(1)	
The science of surfing	15(2)	
Spectroscopy, mechanisms and calculations online	15(3)	
A world of science just a click away	15(4)	
The nano-world wide web	16(1)	
Practical internet	16(2)	
Extreme internet	16(3)	
Bright sites: in search of the most useful chemistry websites		16(4)
Molecule of the month	17(1)	
The great communicator	17(2)	
Internet dating	17(3)	
Chemistry in car engines	17(4)	
iExperiment	18(1)	

WORTH READING

Molecules at an Exhibition	8(4)	
Nitroglycerine	9(2)	
The shocking history of Phosphorus: a biography of the Devil's element	10(2)	
The X-ray detective	11(1)	
Science, not art: ten scientists' diaries		14(1)
Uncle Tungsten	14(4)	
Better Looking, Better Living, Better Loving: How chemistry can help you achieve life's goals	17(2)	
Eurekas and Euphorias:	18(3)	
The Oxford Book of Scientific anecdotes		
Max Perutz and the secret of life	18(4)	

HOW CHEMISTRY WORKS

Modelling the atom	17(1)
The noble gases: not so unreactive after all	17(3)
How the periodic table was born	17(4)
What is everything made from?	18(3)

ENCOUNTER

Chemical landmarks of the twentieth century	9(3)
Chemistry in slow motion	9(5)
A date with the high and mighty of science	10(2)
Malcolm Cunnington: the man in the white coat!	10(4)
How snails could help repair broken bones	12(1)
Showcase Science 2005	15(2)
Tracking your degree application	15(4)
Fruity electricity: Grätzel solar cells	16(3)
Extremophiles in New York	16(4)
Two pyrones and beyond...	17(1)
Call to A-level students:	18(2)
Preparations begin for Showcase Science 2009	

CHEMYSTERY

The case of the missing scientist: part 1	18(1)
The case of the missing scientist: part 2	18(2)
The case of the missing scientist: part 3	18(3)
The case of the missing scientist: part 4	18(4)

FOCUS ON INDUSTRY

Salt	6(2)
Making inks stick	9(4)
The perfect solution: taking catalyst recycling to a new level	17(2)

REMEMBER REMEMBER

Using mnemonic methods	8(1)
The story system	8(2)
The loci system	8(3)
The Peg Method	8(4)

RESEARCH TEAM

Are you part of a research team?	8(1)
Naphthazarin, PDT and the fight against cancer	8(2)
The problem with PET	8(4)
Are you part of a research team?	9(1)

Nitric oxide as a synthetic reagent	9(5)
Pushing back the frontiers...	10(1)

100 YEARS AGO

Robert Wilhelm Bunsen (1811-1899)	8(3)
Edward Frankland (1825-1899)	9(2)

200 YEARS AGO

Joseph Black (1728-1799)	9(1)
--------------------------	------

WONDERS OF CHEMISTRY

Liquid breathing	11(1)
Paved with Titanium	11(2)
Saving reefs from grief	11(3)
Self-healing plastic	11(4)
Windows that clean themselves	12(2)
Twenty-first century batteries	12(4)
Seeing with selenium	13(2)
Solution to a sticky problem: non-drip ice-lollies	13(3)
Tougher than a speeding bullet	13(4)
The future's bright, the future's ... tritium	14(2)
Luminol: shedding the light on 'hidden' evidence	14(3)
Potty power: microbial fuel cells	14(4)

CHEMICAL HEROES

A tough mistake	11(1)
-----------------	-------

ONE-OFF SERIES OF MAIN ARTICLES:

CHEMISTRY AND THE ENVIRONMENT

Nitrogen and phosphorus in estuaries	7(1)
Mountains of waste	7(2)
SO ₂ and acid rain	7(3)
Climate change and CO ₂	7(4)
Tracing oil spills at sea	7(5)

CHEMISTRY AND HEALTH

Quinine – one of the great molecules	8(1)
Metals in medicine	8(2)
Body parts from the polymer lab	8(3)
The discovery of Ventolin	8(4)

GREEN CHEMISTRY

Catalysts	9(1)
Green beans?	9(2)

Environmental solutions	9(3)	
Plants of the future	9(4)	
Atom efficiency and catalysis	9(5)	
CHEMISTRY IN SPACE		
DIBs: a great unsolved mystery	10(1)	
What a dusty universe!	10(2)	
Space: the first and last great brewery	10(3)	
Beagle 2: looking to explore a blurred vision of life on Mars		10(4)
A TASTE FOR CHEMISTRY		
Cool chemistry: what's in an ice cream?	11(1)	
Cooked to a turn! Non-enzymic browning in food	11(2)	
A root to white sugar: how to turn a plant into something sweet	11(3)	
Understanding cocoa flavour	11(4)	
CHEMISTRY EVERYWHERE		
Curly locks	12(1)	
Roast beef and ashes to vegetarian shampoo	12(2)	
All you should know about dough	12(3)	
The ultra-blue: the story of ultramarine	12(4)	
FORENSIC CHEMISTRY		
The chemistry of fingerprints	13(1)	
Resurrecting the past	13(2)	
Behind the scenes at the National Gallery	13(3)	
Drugs on money	13(4)	
FUELLING THE FUTURE		
Electricity generation	14(1)	
Electricity, the next generation	14(2)	
Driving towards a cleaner future	14(3)	
Global impact of fuels	14(4)	
SPORTING CHEMISTRY		
Performance fuel for people	15(1)	
Chemistry has the right fibre for sporting glory	15(2)	
Designer magic sponges	15(3)	
Catching the cheats: detecting drugs in sport	15(4)	
NANOTECHNOLOGY		
Nanochemistry: delivering new medicines?	16(1)	
Nanotechnologists inspired by nature: building new model enzymes	16(2)	
Liquid crystals: the fourth state of matter	16(3)	
When superconductors get crabby	16(4)	
CHEMISTRY AND CLIMATE		
Natural climate variability	17(1)	
The Antarctic ozone hole	17(2)	
The benefits of bracing sea air		17(3)

The chemistry of indoor air 17(4)

MEDICINAL CHEMISTRY

Precious medicines 18(1)

Don't hold your breath: the diagnostic potential of
breath analysis 18(2)

Curing cancer with chemistry 18(3)

Salbutamol: saving your breath 18(4)