



Software for Science KS3

QCA Unit	Title	Description	Publisher	Cost
7A Cells	Internet: <a href="http://www.cellsalive.com">www.cellsalive.com</a>	Images of cells.		
	Computerised Microscope e.g. Motic DigiScope 300	High quality images, rapid focusing + software allows pupils to measure the length & area of captured objects. Classroom resources.	TTS Group	£119.95
	Vision Viewer	Flexible neck camera and software to display/record still images and live action movie.	Economatics	£299.00
7B Reproduction	Bodyworks 6.0	Study the body from head to toe. Focus on - skeletal, muscular, nervous, digestive, lymphatic, endocrine, cardiovascular and reproductive.	TLC (AVP)	1 user £25.52 Extra user £7.50
	Human Life and Reproduction	Human life is a series of complicated functions that transform a person from child into an adolescent and then an adult. Through interactive animations and 3D models students are shown the work of the digestive and reproduction systems in an attractive and easy to remember manner.	AVP	20 user £36.00 30 user £49.00 40 user £59.00
	*The Ultimate Human Body 2.0	Multimedia guide through the body and how it works.	DK (AVP)	1 user £25.52 10 user £85.10
7C Environment and feeding relationships	Internet: <a href="http://www.field-guides.com/trips.htm">www.field-guides.com/trips.htm</a> *Datalogging	An interactive field trip - opportunity for pupils to explore a wider variety of habitats.  Temperature, oxygen, light and pH sensors to monitor environmental changes. See last section. See last section.		
	Encyclopaedia			
	Food Chains and Webs	An interactive multimedia program to explore how organisms depend on one another for food and survival.	Cyber Ed (AVP)	1 user £69.00 10 user n/w £207
7D Variation and classification	Internet: <a href="http://www.nhm.ac.uk/">www.nhm.ac.uk/</a> Encyclopaedia *Spreadsheet	Information about the variety and classification of living things.  See last section. See last section.		

7E Acids and alkalis	Internet: www.miamisci.org *Datalogging	To select information about the uses and effects of acids and alkalis. pH sensor to record acid/alkalis changes. See last section.		
7F Simple chemical reactions	*Word processor or *DTP	To produce an information leaflet. See last section.		
7G Particle model of solids, liquids and gases	States of Matter	Explains, with animations, the properties of solids, liquids and gases.	New Media (AVP)	1 user £65.00 Unlimited £200.00
7L The solar system and beyond	Internet: www.jb.man.ac.uk www.nmsi.ac.uk www.nasa.gov/ www.seti.org/game/  *Datalogging  Encyclopaedia *WP or DTP	A virtual observatory. The eclipse lab on the Science Museum website.  Information about the solar system. SETI - An organisation that is searching for extraterrestrial intelligence. Site includes an interactive game. Light and temperature sensors to collect temperature and day length data. See last section. To write a travel brochure for future visitors to the chosen planet. See last section.		
	Red Shift 5	A guide to astronomy containing many NASA photographs and video-clips of Earth and space. The CD-ROM offers a multimedia planetarium for investigating the solar system and beyond.	Maris (AVP)	1 user £29.99
	Encyclopedia of Space & the Universe	Topics include planets and the solar system, stars and galaxies, exploration satellites.	AVP	1 user £25.52 10 user £85.10 20 user £127.65
8A Food and digestion	Internet: www.nutrition.org.uk *Datalogging	Information and advice on food and diet. pH sensor to monitor the effect of pH changes on enzyme activity. See last section.		
	The Food You Eat	Allows you to calculate the nutrient yields of 470 common foods, list foods which are rich/poor sources of individual nutrients, investigate and record energy and protein requirements, and the basis on which RNI for vitamins and minerals are determined.	DAB Computing (AVP)	1 user £25.00
	*Nutrients for the PC	A food analysis program with a database of over 800 foods. All data originates from the 'Composition of Foods' by McCance and Widdowson.	HMC	Unlimited £99
	Diets	A food analysis program with a database of over 320 foods. 2000 extra foods can be added. The "peoples" database contains nutrient requirements for 33 different types of people.	Garland (AVP)	1 user £28 Network £40.25
8B Respiration	*Datalogging  CD-ROMs	Sensors to monitor temperatures and other changes in germinating peas. See last section. The heart's structure and function. See Unit 7B.		

8C Microbes and disease	*Datalogging Internet	pH sensor to record changes when making yoghurt. . To find out about programmes of routine immunisations.		
8D Ecological relationships	Internet: <a href="http://www.ase.org.uk/envink.html">www.ase.org.uk/envink.html</a>  Encyclopaedia  *Datalogging  *Spreadsheet  *Digital camera *Multimedia	Information about ecological relationships, biodiversity and environmental issues. To explore animal and plant communities in different habitats. See last section. Temperature, oxygen, light and humidity sensors to collect remote data about environmental conditions required by plants and animals. A prepared spreadsheet for recording data from fieldwork. See last section. To record the habitat and organisms found. See last section. Report presentation. See last section.		
8E Atoms and elements	Internet: <a href="http://www.shu.ac.uk/schools/sci/chem">www.shu.ac.uk/schools/sci/chem</a> <a href="http://www.knowledgebydesign.com/tlmc/">www.knowledgebydesign.com/tlmc/</a> <a href="http://www.chemsoc.org/viselements/">www.chemsoc.org/viselements/</a> <a href="http://www.sciquest.com/">www.sciquest.com/</a>	Information about elements.		
	Chemistry Set 2000	An incredibly rich resource for science - molecular images, video sequences of key chemical experiments and processes, photos of minerals, great chemists, chemistry in use, glossary of terms.	New Media (AVP)	1 user £149.95 £349.95 network
8F Compounds and mixtures	*Datalogging	Temperature sensor to record cooling temps of water solutions.		
8G Rocks and weathering	*Digital camera or *Computerised microscope	To create a time-lapse sequence of rock changes. See last section.		
8I Heating and cooling	*Datalogging	Temperature sensors to monitor materials as conductors/insulators. See last section.		
	States of Matter	See Unit 7G.		
8K Light	*Datalogging	Light sensors to investigate properties of materials. See last section.		
	Light and Sound	An interactive virtual laboratory allows students to set up and control their own experiments.	BTL (AVP)	Unlimited £70.00
	Chemistry Set 2000	See Unit 8E.		
8L Sound and hearing	Datalogging	Sound sensor to present a 'picture' of a sound wave. See last section.		
	Light and Sound	See Unit 8K.		
	*The New Way Things Work	An excellent resource for exploring and investigating how scientific principles are applied to designing objects.	DK (AVP)	1 user £25.52 10 user £85.10

	Internet: www.howstuffworks.com www.hearnet.com www.hhmi.org/senses/	To find out how telephones or microphones work, how bats use ultrasound etc. The causes of tetanus and temporary deafness are still a matter of debate. Use the Internet addresses to find out current ideas.		
9A Inheritance and selection	*Spreadsheet	Same variety of crop e.g. vegetables – make measurements and present results as a frequency graph. See last section.		
	Blind Watchmaker	Simulation program of living things represented by ‘biomorphs’ and their evolution by passing on their genes.	SPA (AVP)	1 user £29 Unlimited £108
9C Plants and photosynthesis	Datalogging	Oxygen sensor to record the changing oxygen concentration in water. See last section.		
	Photosynthesis	Explains how plants convert light energy into chemical energy.	Cyber Ed (AVP)	1 user £100 10 user network £300
9D Plants for food	*Computerised microscope *WP/Spreadsheet/Graphs  Internet	Observation of starch slides – class activity. See last section. Present survey results/associated problems to a landowner about the number and types of weeds growing on the land. See last section. Research for information about pests.		
9G Environmental chemistry	Internet: www.epa.gov/ Internet/Encyclopaedia	To research for information about recent volcanic eruptions. Information about the effects and origins of acid rain. To research global warming.		
9H Using chemistry	Chemistry Set 2000	See Unit 8E.		
9J Gravity and space	Internet: www.nasa.gov www.russianspace.com  Encyclopaedias	Space scientists on-line and images from satellites. Research how rockets get away from Earth.  See last section.		
9K Speeding up	Datalogging	Light gate sensors to measure the speed of cars. See last section.		
Yr.7	%Investigating Science 1 Various units	Interactive activities, slideshows, tools for recording information and handling data, worksheets and ideas for classroom investigation. Topics covered: cells, reproduction, classification, ecosystems, acids & alkalis, solutions, particles, chemical reactions, electricity, energy, solar system, and forces.	Granada Learning (ICT Centre)	1 user £49 Unlimited £245.00
Yr.8	%Investigating Science 2 Various units	Interactive activities, slideshows, tools for recording information and handling data, worksheets and ideas for classroom investigation. Topics covered: food & digestion, respiration, microbes & disease, ecological relationships, atoms & elements, compounds & mixtures, rocks & weathering, heating & cooling, magnets & electromagnetism, light, sound and hearing.	Granada Learning (ICT Centre)	1 user £49 Unlimited £245.00

Yr.9	%Investigating Science 3 Various units	Interactive activities, slideshows, tools for recording information and handling data, worksheets and ideas for classroom investigation. Topics covered: inheritance and selection, fit & healthy, plants & photosynthesis, plants for food, metals and metal compounds, patterns of reactivity, environmental chemistry, energy and electricity, gravity & space, pressure & movements.	Granada Learning (ICT Centre)	1 user £49 Unlimited £245.00
Heinemann Explore Science Key Stage 3	Various units	Pictorial and written resources, activities, worksheets for the following topics: Life Processes & Living Things Materials & their Properties Physical Processes	Heinemann	1 user £81.25 Unlimited £162.50 per title
Datalogging	*LogIT Explorer  EasySense Advanced	A range of datalogging interfaces – remote and live, including sensors and software.  LogIT Lab software.  A remote and live datalogger with 2 long & short sensor leads. EasySense software. Sensors from £29.00 each.	DCP  Data Harvest	USB connection £179.99 Serial connection £169.99 Unlimited £39.95  £229.00 Unlimited £150.00
Encyclopaedias	*Encyclopedia of Nature 2.0	More than 250 plants and animals are brought to life - watch their behaviour in their environments.	DK (AVP)	1 user £25.52 10 user £85.10
	Encarta 2005 Standard Encarta 2004 Premium Suite	Comprehensive encyclopaedias.	Microsoft (AVP)	1 user £25.52 1 user £68.70
	*Encyclopedia of Science 2.0	A very well illustrated encyclopaedia containing more than 1700 entries covering Chemistry, Physics, Life sciences and a Who's Who of science.	DK (AVP)	1 user £25.52 10 user £85.10
Spreadsheet/Graphs	*MS Excel			
Word processor	*MS Word			
DTP	*MS Publisher			
Multimedia	*MS PowerPoint			
Digital Camera	*Sony Mavica	Images are saved to floppy disc, CD-ROM, memory stick.	CSH Economatics RM	Approx. £199.00

\*These titles are available for review at the ICT Centre

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## Science Software Suppliers' Addresses

<b>Supplier</b>	<b>Address</b>	<b>Telephone</b>
ICT Centre	BTLC, Ellen Road, Aylesbury HP21 8ES	01296 428402
AVP	School Hill Centre, Chepstow, Gwent NP6 5PH	01291 625439
Cambridgeshire Software House (CSH)	P.O. Box 163, Hungtingdon, Cambs. PE28 3UR	01487 741223
Data Harvest Group Ltd	1 Eden Court, Leighton Buzzard, Beds. LU7 4FY	01525 373666
DCP Microdevelopments Ltd	Bryon Court, Bow Street, Great Ellingham, Norfolk NR17 1JB	01953 457800
Economatics (Education) Ltd	18-22 Darnall Rd, Attercliffe, Sheffield S9 5AA	0114 281 3311
Hampshire Microtechnology Centre (HMC)	The Parkway, 94-96 Wickham Road, Farnham, Hampshire	01329 519111
RM plc	183 Milton Park, Abingdon Oxfordshire OX14 4SE	08709 086969

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