

Useful links to science websites

Subject	Section	Topic	Links	Notes on the link
Biology	Cell Biology	<ul style="list-style-type: none"> <li>Cells, tissues and organs               <ul style="list-style-type: none"> <li>Cell components</li> </ul> </li> <li>Cellular transport</li> </ul>	<a href="http://images.botany.org/">http://images.botany.org/</a>	A large number of plant histology slides
			<a href="http://www.life.uiuc.edu/plantbio/cell/">http://www.life.uiuc.edu/plantbio/cell/</a>	Virtual Plant cell
			<a href="http://users.rcn.com/jkimball.ma.ultranet/BiologyPages/A/AnimalCells.html">http://users.rcn.com/jkimball.ma.ultranet/BiologyPages/A/AnimalCells.html</a>	A level animal cells
			<a href="http://www.howstuffworks.com/cell.htm">http://www.howstuffworks.com/cell.htm</a>	Cell sites
			<a href="http://biology.clc.uc.edu/courses/bio104/cells.htm">http://biology.clc.uc.edu/courses/bio104/cells.htm</a>	
			<a href="http://www.usoe.k12.ut.us/curr/science/sciber00/7th/cells/sciber/celldiag.htm">http://www.usoe.k12.ut.us/curr/science/sciber00/7th/cells/sciber/celldiag.htm</a>	Cells Basic + other GCSE and KS3 level sites
			<a href="http://www.biology4kids.com/files/cell_main.html">http://www.biology4kids.com/files/cell_main.html</a>	Mainly GCSE but use up to AS
	Cell division	<a href="http://www.cellsalive.com/">http://www.cellsalive.com/</a>	Plants and Animal Cells –mainly A level	
	Living Processes	Photosynthesis	<a href="http://www.johnkyrk.com/photosynthesis.html">http://www.johnkyrk.com/photosynthesis.html</a>	Photosynthesis animation (A level)
			<a href="http://photoscience.la.asu.edu/photosyn/education/learn.html">http://photoscience.la.asu.edu/photosyn/education/learn.html</a>	Photosynthesis resources all levels
			<a href="http://www.cambridgeassessment.org.uk/ca/Initiatives/Detail/Simulation-Water-Weed">http://www.cambridgeassessment.org.uk/ca/Initiatives/Detail/Simulation - Water Weed</a>	Photosynthesis simulation for pondweed
		Animal Nutrition	<a href="http://resources.schoolscience.co.uk/ABPI/digestion/index.html">http://resources.schoolscience.co.uk/ABPI/digestion/index.html</a>	<b>Digestion Food and Nutrition</b>
		Respiration	<a href="http://resources.schoolscience.co.uk/abpi/asthma/index.html">http://resources.schoolscience.co.uk/abpi/asthma/index.html</a>	<b>Breathing</b>
	Transport systems			

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		in plants		
		Transport systems in mammals	<a href="http://resources.schoolscience.co.uk/abpi/heart/index.html">http://resources.schoolscience.co.uk/abpi/heart/index.html</a>	<b>Circulation</b> Interactive site from ABPI
			<a href="http://www.mayoclinic.com/health/VideoIndexPage/VideoIndexPage">http://www.mayoclinic.com/health/VideoIndexPage/VideoIndexPage</a>	Animated video of the circulatory system
			<a href="http://www.pbs.org/wgbh/nova/cheart/">http://www.pbs.org/wgbh/nova/cheart/</a>	Interactive heart
		Homeostasis and excretion	<a href="http://resources.schoolscience.co.uk/ABPI/kidneys/index.html">http://resources.schoolscience.co.uk/ABPI/kidneys/index.html</a>	<b>Kidney</b> Interactive site from ABPI
		Support and movement		
		Plant tropisms		
		Mammalian nervous system		
		Endocrine system	<a href="http://resources.schoolscience.co.uk/ABPI/new/resources/hormones/index.asp">http://resources.schoolscience.co.uk/ABPI/new/resources/hormones/index.asp</a>	<b>Hormones</b> Interactive site from ABPI
	Reproduction	Reproduction in plants		
		Reproduction in mammals and humans		
		Growth and development		
	Environmental Biology	<ul style="list-style-type: none"> <li>• Carbon and nitrogen cycles</li> <li>• Ecosystems</li> <li>• Population</li> <li>• Human ecology</li> </ul>	<a href="http://www.floralocale.org/">http://www.floralocale.org/</a>	Good on conservation and biodiversity
			<a href="http://school.discovery.com/ontv/videoclips/animals1.html">http://school.discovery.com/ontv/videoclips/animals1.html</a>	Animal ecology video clips
			<a href="http://school.discovery.com/ontv/videoclips/plants1.html">http://school.discovery.com/ontv/videoclips/plants1.html</a>	Plant associations video clips
			<a href="http://school.discovery.com/ontv/videoclips/ecology1.html">http://school.discovery.com/ontv/videoclips/ecology1.html</a>	Ecology video clips

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			<a href="http://www.redlist.org/">http://www.redlist.org/</a>	Endangered species list and info Red list IUCN
			<a href="http://www.arkive.org/">http://www.arkive.org/</a>	Massive conservation site -1000's of images of species with video clips
			<a href="http://www.extremescience.com/creatport.htm">http://www.extremescience.com/creatport.htm</a>	World records for animals
			<a href="http://internt.nhm.ac.uk/eb/index.shtml">http://internt.nhm.ac.uk/eb/index.shtml</a>	Biodiversity site from Natural History Museum – interactive simulation
	Heredity	Genetics and Inheritance	<a href="http://www.dnaftb.org/dnaftb/">http://www.dnaftb.org/dnaftb/</a>	Massive DNA /genetics site with animations notes and diagrams
			<a href="http://www.doggenetichealth.org/">http://www.doggenetichealth.org/</a>	Dog genetics
			<a href="http://www.bbc.co.uk/sn/prehistoric_life/redesign.shtml">http://www.bbc.co.uk/sn/prehistoric_life/redesign.shtml</a>	Fossils and Dinosaur games. The Evolution Game*****
			<a href="http://www.genetics.gsk.com/understand.htm#">http://www.genetics.gsk.com/understand.htm#</a>	Great Genetics Site Glaxocline Smith Some GCSE and A level
			<a href="http://www.genetics.gsk.com/kids/dna01.htm">http://www.genetics.gsk.com/kids/dna01.htm</a>	Kids Genetics GCSE – Interactive animations
			<a href="http://www.dnai.org/index.htm">http://www.dnai.org/index.htm</a>	DNA – the ultimate interactive site for A level
			<a href="http://gslc.genetics.utah.edu/">http://gslc.genetics.utah.edu/</a>	Genetics centre – basics + interactive techniques with Genes and DNA
			<a href="http://www.genome.gov/Pages/EducationKit/">http://www.genome.gov/Pages/EducationKit/</a>	Human Genome education page
			<a href="http://www.biologycorner.com/worksheets/pepperedmoth.html">http://www.biologycorner.com/worksheets/pepperedmoth.html</a>	Natural selection simulation peppered moth
			<a href="http://www.pbs.org/wgbh/nova/genome/program_t_qt.html#">http://www.pbs.org/wgbh/nova/genome/program_t_qt.html#</a>	On line video –mystery of life
			<a href="http://www.pbs.org/wgbh/nova/sheppard/">http://www.pbs.org/wgbh/nova/sheppard/</a>	Murder mystery DNA fingerprinting

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			<a href="http://www.cambridgeassessment.org.uk/ca/Initiatives/Detail/Simulation_-_Rabbit_Genetics">http://www.cambridgeassessment.org.uk/ca/Initiatives/Detail/Simulation_-_Rabbit_Genetics</a>	Simulation rabbit breeding –monohybrid cross	
		Evolution			
		Classification			
Chemistry	Physical Chemistry				
	Chemical processes	Water and combustion			
		Acids, bases and salts		<a href="http://phet.colorado.edu/new/simulations/sims.php?sim=Salts_and_Solubility">http://phet.colorado.edu/new/simulations/sims.php?sim=Salts_and_Solubility</a>	Salts and solubility
				<a href="http://www.chemcollective.org/tutorials.php">http://www.chemcollective.org/tutorials.php</a>	Video tutorials on a variety of chemistry topics – GCSE level and above
				<a href="http://www.chem.ox.ac.uk/vrchemistry/complex/default.html">http://www.chem.ox.ac.uk/vrchemistry/complex/default.html</a>	Virtual Chemistry Lab on Complex Ions
				<a href="http://www.infoplease.com/chemistry/simlab/">http://www.infoplease.com/chemistry/simlab/</a>	Virtual Chemistry Lab – simulations on electrolysis of KBr, CuSO <sub>4</sub> – explanation of movement of ions
				<a href="http://www.miamisci.org/ph/">http://www.miamisci.org/ph/</a>	pH factor – junior to GCSE – excellent site on pH and indicators
				<a href="http://www.sciencepages.co.uk/keystage3/year7/module5/m5quiz.php">http://www.sciencepages.co.uk/keystage3/year7/module5/m5quiz.php</a>	ON line quiz on acids and alkalis
				<a href="http://www.sciencepages.co.uk/keystage3/year7/module5/m5revision.php">http://www.sciencepages.co.uk/keystage3/year7/module5/m5revision.php</a>	Revision notes for acids and alkalis junior
				<a href="http://www.miamisci.org/ph/default.html">http://www.miamisci.org/ph/default.html</a>	Great site for pH with junior classes
		Structure and bonding		<a href="http://web.visionlearning.com/custom/chemistry/animations/CH_E1.3-an-animations.shtml">http://web.visionlearning.com/custom/chemistry/animations/CH_E1.3-an-animations.shtml</a>	Atomic structure of 1 <sup>st</sup> 11 elements in table
			<a href="http://ippex.pppl.gov/interactive/matter/elements.html">http://ippex.pppl.gov/interactive/matter/elements.html</a>	A nice interactive intro to atomic structure	

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			<a href="http://particleadventure.org/">http://particleadventure.org/</a>	A more advanced look at Atomic structure and sub atomic particles - interactive
			<a href="http://education.jlab.org/atomtour/listofparticles.html">http://education.jlab.org/atomtour/listofparticles.html</a>	All about atoms
			<a href="http://science.widener.edu/svb/molecule/molecule.html">http://science.widener.edu/svb/molecule/molecule.html</a>	<a href="#">Visualizing Molecules</a> - diagrams and computer generated images of different molecules and compounds. There are also links to other sites.
			<a href="http://www.chm.bris.ac.uk/motm/motm.htm">http://www.chm.bris.ac.uk/motm/motm.htm</a>	Molecule of the month
			<a href="http://www.chem.ox.ac.uk/vrchemistry/electronsandbonds/intro3.htm">http://www.chem.ox.ac.uk/vrchemistry/electronsandbonds/intro3.htm</a>	Electron sharing and covalent bonds
			<a href="http://www.chemistry.org/portal/a/c/s/1/feature_tea.html?id=8db636d634fc11d6eba74fd8fe800100">http://www.chemistry.org/portal/a/c/s/1/feature_tea.html?id=8db636d634fc11d6eba74fd8fe800100</a>	Great Women Chemists
			<a href="http://science.widener.edu/svb/molecule/molecule.html">http://science.widener.edu/svb/molecule/molecule.html</a>	<a href="#">Visualizing Molecules</a> - diagrams and computer generated images of different molecules and compounds. There are also links to other sites.
	Electrochemistry		<a href="http://www.chem.iastate.edu/group/Greenbowe/sections/projectfolder/animations/CuZncell.html">http://www.chem.iastate.edu/group/Greenbowe/sections/projectfolder/animations/CuZncell.html</a>	Zinc copper cell simulation
			<a href="http://www.chem.iastate.edu/group/Greenbowe/sections/projectfolder/animations/PbbatteryV8web.html">http://www.chem.iastate.edu/group/Greenbowe/sections/projectfolder/animations/PbbatteryV8web.html</a>	Car batter animation Lead :Lead oxide
			<a href="http://www.chem.iastate.edu/group/Greenbowe/sections/projectfolder/flashfiles/redox/home.html">http://www.chem.iastate.edu/group/Greenbowe/sections/projectfolder/flashfiles/redox/home.html</a>	Activity series simulations using electrochemistry
			<a href="http://www.chem.iastate.edu/group/Greenbowe/sections/projectfolder/flashfiles/electroChem/volticCell.html">http://www.chem.iastate.edu/group/Greenbowe/sections/projectfolder/flashfiles/electroChem/volticCell.html</a>	Electrochemical cell simulation and explanation
			<a href="http://www.chem.iastate.edu/group/Greenbowe/sections/projectfolder/animations/ZnCutransfer.html">http://www.chem.iastate.edu/group/Greenbowe/sections/projectfolder/animations/ZnCutransfer.html</a>	Animation - electrolysis of copper nitrate with zinc electrode
			<a href="http://www.infoplease.com/chemistry/simlab/">http://www.infoplease.com/chemistry/simlab/</a>	Virtual Chemistry Lab – simulations on electrolysis of KBr, CuSO <sub>4</sub> – explanation of movement of ions

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	Chemical reactions		<a href="http://www.chem.iastate.edu/group/Greenbowe/sections/projectolder/flashfiles/electroChem/electrolysis10.html">http://www.chem.iastate.edu/group/Greenbowe/sections/projectolder/flashfiles/electroChem/electrolysis10.html</a>	This interactive online animation allows the user to simulate the electrochemical cell reactions for metals in solution. Users can select the metal electrodes, the solution and change the current or voltage applied; a timer shows how the metals change over time.	
			<a href="http://www.ausetute.com.au/halfeqtn.html">http://www.ausetute.com.au/halfeqtn.html</a>	Balancing half equations in electrolysis	
			<a href="http://www.wfu.edu/~ylwong/balanceeq/combust.html">http://www.wfu.edu/~ylwong/balanceeq/combust.html</a>	Balancing equations interactive site	
			<a href="http://newtraditions.chem.wisc.edu/fpts/fbeqns/ChemEqnf.htm">http://newtraditions.chem.wisc.edu/fpts/fbeqns/ChemEqnf.htm</a>	Balancing equations	
			<a href="http://funbasedlearning.com/chemistry/chembalancer/default.htm">http://funbasedlearning.com/chemistry/chembalancer/default.htm</a>	Balancing chemistry equations	
			<a href="http://www.creative-chemistry.org.uk/gcse/revision/equations/02.htm">http://www.creative-chemistry.org.uk/gcse/revision/equations/02.htm</a>	Balancing chemistry equations	
			<a href="http://www.carlton.srsd119.ca/chemical/molemass/empirical_formula.htm">http://www.carlton.srsd119.ca/chemical/molemass/empirical_formula.htm</a>	Calculating empirical formula	
			<a href="http://dbhs.wvusd.k12.ca.us/webdocs/Mole/EmpiricalFormula.html">http://dbhs.wvusd.k12.ca.us/webdocs/Mole/EmpiricalFormula.html</a>	Empirical formula	
			<a href="http://library.thinkquest.org/10429/low/chemcomp/chemcomp.htm">http://library.thinkquest.org/10429/low/chemcomp/chemcomp.htm</a>	Calculations notes + questions	
			<a href="http://www.visionlearning.com/library/module_viewer.php?mid=53">http://www.visionlearning.com/library/module_viewer.php?mid=53</a>	The mole - notes and explanations and calculations	
	Inorganic chemistry	Metals and their compounds		<a href="http://www.chemsoc.org/viselements/pages/data/intro_group1_data.html">http://www.chemsoc.org/viselements/pages/data/intro_group1_data.html</a>	Data and reactions of alkali metals
				<a href="http://www.chem.ox.ac.uk/vrchemistry/FilmStudio/alkalimetals/HTML/page01.htm">http://www.chem.ox.ac.uk/vrchemistry/FilmStudio/alkalimetals/HTML/page01.htm</a>	Video clips of reactions of alkali metals with air water and chlorine
				<a href="http://genchem.chem.wisc.edu/lab/CCA/LISTS/ALKALIMETALS.HTM">http://genchem.chem.wisc.edu/lab/CCA/LISTS/ALKALIMETALS.HTM</a>	More videos – showing reaction of rubidium., caesium with water , air and acid
				<a href="http://www.chemsoc.org/Networks/Learnnet/videodemos/alkalimetals.pdf">http://www.chemsoc.org/Networks/Learnnet/videodemos/alkalimetals.pdf</a>	Notes on demonstrating the reactions of the alkali metals
				<a href="http://www.ilpi.com/msds/ref/alkalineearth.html">http://www.ilpi.com/msds/ref/alkalineearth.html</a>	Reactions of the alkaline earth metals

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			<a href="http://www.oup.com/uk/orc/bin/9780199264636/01student/video/ch11/">http://www.oup.com/uk/orc/bin/9780199264636/01student/video/ch11/</a>	Notes + video clips on reactions of alkaline metals	
			<a href="http://www.chemsoc.org/viselements/pages/data/intro_group_data.html">http://www.chemsoc.org/viselements/pages/data/intro_group_data.html</a>	Data and reactions of alkali metals	
		Halogens			
		Inert gases			
		Nitrogen, sulphur and inorganic carbon	<a href="http://www.webelements.com/webelements/elements/text/C/physics.html">http://www.webelements.com/webelements/elements/text/C/physics.html</a>	Chemistry of carbon University of Sheffield	
			<a href="http://library.thinkquest.org/11226/why.htm">http://library.thinkquest.org/11226/why.htm</a>	<b>Interactive learning site on the carbon cycle</b>	
			<a href="http://www.chemsoc.org/exemplarchem/entries/2003/bristol_shanley/carbonallotropes/diamond.htm">http://www.chemsoc.org/exemplarchem/entries/2003/bristol_shanley/carbonallotropes/diamond.htm</a>	Allotropes of carbon Bristol University	
			<a href="http://www.saskschools.ca/curr_content/chem20/networks/allotrop.html">http://www.saskschools.ca/curr_content/chem20/networks/allotrop.html</a>	The allotropes of carbon	
		Organic chemistry	Structure and bonding	<a href="http://www.mp-docker.demon.co.uk/as_a2/topics/homologous_series/quiz_1.html">http://www.mp-docker.demon.co.uk/as_a2/topics/homologous_series/quiz_1.html</a>	Homologous series quiz
				<a href="http://members.aol.com/logan20/alkanes.html">http://members.aol.com/logan20/alkanes.html</a>	The alkanes – detailed notes with reactions
	<a href="http://www.creative-chemistry.org.uk/molecules/">http://www.creative-chemistry.org.uk/molecules/</a>			3D interactive molecular models of many compounds	
	<a href="http://dwb.unl.edu/Teacher/NSF/C11/C11Links/www.harcourtcollege.com/chem/biochem/GarrettGrisham/HardToGrasp/Redox/Redox.htm">http://dwb.unl.edu/Teacher/NSF/C11/C11Links/www.harcourtcollege.com/chem/biochem/GarrettGrisham/HardToGrasp/Redox/Redox.htm</a>			Explanation of oxidation reduction reactions	

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		<a href="http://www.s-cool.co.uk/topic_principles.asp?loc=pr&amp;topic_id=10&amp;subject_id=21&amp;ebt=247&amp;ebn=&amp;ebs=&amp;ebl=&amp;elc=4">http://www.s-cool.co.uk/topic_principles.asp?loc=pr&amp;topic_id=10&amp;subject_id=21&amp;ebt=247&amp;ebn=&amp;ebs=&amp;ebl=&amp;elc=4</a>	Good for revision on crude oil
		<a href="http://www.howstuffworks.com/oil-refining4.htm">http://www.howstuffworks.com/oil-refining4.htm</a>	Distillation of crude oil animation +notes
	Hydrocarbons	<a href="http://www.elmhurst.edu/~chm/onlcourse/chm110/outlines/distillation.html">http://www.elmhurst.edu/~chm/onlcourse/chm110/outlines/distillation.html</a>	Distillation of crude oil notes and diagrams
		<a href="http://www.popsi.com/popsi/how20/e5a2c12c110fa010vgncm1000004eebcddrerd.html">http://www.popsi.com/popsi/how20/e5a2c12c110fa010vgncm1000004eebcddrerd.html</a>	Making nylon
	Alcohols, acids and other compounds	<a href="http://www.pslc.ws/macrog/nysyn.htm">http://www.pslc.ws/macrog/nysyn.htm</a>	Advanced descriptions of making nylon with reaction equations
	Polymers	<a href="http://www.rsc.org/Education/EiC/issues/2006Mar/ExhibitionChemistry.asp">http://www.rsc.org/Education/EiC/issues/2006Mar/ExhibitionChemistry.asp</a>	Demonstrations of making nylon
		<a href="http://scifun.chem.wisc.edu/chemweek/polymers/polymers.html">http://scifun.chem.wisc.edu/chemweek/polymers/polymers.html</a>	Extensive notes on polymers
		<a href="http://www.nationalgeographic.com/resources/ngo/education/plastics/index.html">http://www.nationalgeographic.com/resources/ngo/education/plastics/index.html</a>	Very basic introduction to polymers - National Geographic

Useful links to science websites

Physics	Forces	<ul style="list-style-type: none"> <li>• Mechanics</li> <li>• Linear motion</li> <li>• Newton's Laws</li> <li>• Motion in a circle</li> <li>• Pressure</li> </ul>	<a href="http://phet.colorado.edu/new/simulations/sims.php?sim=Projectile_Motion">http://phet.colorado.edu/new/simulations/sims.php?sim=Projectile_Motion</a>	Projectile motion simulation
			<a href="http://library.thinkquest.org/27948/momentum.html">http://library.thinkquest.org/27948/momentum.html</a>	Conservation of momentum simulation – Newton's cradles
			<a href="http://phet.colorado.edu/new/simulations/sims.php?sim=The_Ramp">http://phet.colorado.edu/new/simulations/sims.php?sim=The_Ramp</a>	Work energy and force simulation on a ramp.
			<a href="http://www.science-interactive.co.uk/website%20content%2007/pdf%20gcse%20powerpoint%20lessons/Unit%2032%20Newton%27s%20Forces%20and%20the%20Effects%20of%20Forces.pdf">http://www.science-interactive.co.uk/website%20content%2007/pdf%20gcse%20powerpoint%20lessons/Unit%2032%20Newton%27s%20Forces%20and%20the%20Effects%20of%20Forces.pdf</a>	PowerPoint on Forces
			<a href="http://www.enchantedlearning.com/physics/machines/Levers.shtml">http://www.enchantedlearning.com/physics/machines/Levers.shtml</a>	Simple animations of levers
			<a href="http://library.thinkquest.org/27948/pulley.html">http://library.thinkquest.org/27948/pulley.html</a>	Simulation with pulley systems
			<a href="http://www.edheads.org/activities/simple-machines/">http://www.edheads.org/activities/simple-machines/</a>	Simple and complex machines notes +lesson plans
			<a href="http://www.execulink.com/~ekimmel/density_displacment.htm">http://www.execulink.com/~ekimmel/density_displacment.htm</a>	Displacement of water animations
			<a href="http://www.physicsclassroom.com/mmedia/newtlaws/efff.html">http://www.physicsclassroom.com/mmedia/newtlaws/efff.html</a>	Animation of fall from leaning tower
			<a href="http://homework.uoregon.edu:8080/index.jsp">http://homework.uoregon.edu:8080/index.jsp</a>	Website simulation – allows to drop a ball on Earth Mars Moon and Jupiter - Times it calculates acceleration
	<a href="http://library.thinkquest.org/19537/java/Wave.html">http://library.thinkquest.org/19537/java/Wave.html</a>	Golf game – can change angle and velocity to hit target		
	Energy	Types of energy		
		Work and power		
	Heat and temperature			

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	Machines		
	Waves	<a href="http://phet.colorado.edu/new/simulations/sims.php?sim=Wave_on_a_String">http://phet.colorado.edu/new/simulations/sims.php?sim=Wave_on_a_String</a>	Waves simulation
		<a href="http://phet.colorado.edu/new/simulations/sims.php?sim=Wave_Interference">http://phet.colorado.edu/new/simulations/sims.php?sim=Wave_Interference</a>	Waves ripple tank water also light and sound simulations on interference – wavelength can be measured with a virtual ruler
		<a href="http://phet.colorado.edu/new/simulations/sims.php?sim=Radio_Waves_and_Electromagnetic_Fields">http://phet.colorado.edu/new/simulations/sims.php?sim=Radio_Waves_and_Electromagnetic_Fields</a>	Radio wave simulation
		<a href="http://www.ltscotland.org.uk/5to14/resources/science/amplitude.asp">http://www.ltscotland.org.uk/5to14/resources/science/amplitude.asp</a>	Animations to show amplitude, frequency and wavelength
Light and sound	<ul style="list-style-type: none"> <li>• Reflection</li> <li>• Refraction</li> <li>• Sound</li> </ul>	<a href="http://www.hazelwood.k12.mo.us/~grichert/explore/dswmedia/prism.htm">http://www.hazelwood.k12.mo.us/~grichert/explore/dswmedia/prism.htm</a>	Prism showing spectrum and refraction of different coloured lights
		<a href="http://users.rcn.com/stewoody/">http://users.rcn.com/stewoody/</a>	Photo gallery plus directions to make a pinhole camera, take pictures and develop them. Also, links to other pinhole camera sites
		<a href="http://www.polarization.com/">http://www.polarization.com/</a>	Facts about polarized light, from rainbows to beetles, from Viking navigation to LCD displays. Myths and truth about polarized sunglasses.
		<a href="http://www.opticalres.com/kidoptx_f.html">http://www.opticalres.com/kidoptx_f.html</a>	An overview of the basics of optics, also discusses careers in science and engineering.
		<a href="http://id.mind.net/~zona/mstm/physics/light/rayOptics/refraction/snellsLaw/snellsLaw1.html">http://id.mind.net/~zona/mstm/physics/light/rayOptics/refraction/snellsLaw/snellsLaw1.html</a>	Ray Optics =- interactive ray diagrams, Snell's Law
		<a href="http://physix_jun.tripod.com/index.htm">http://physix_jun.tripod.com/index.htm</a>	How optical fibres work – reflection, refraction ,critical angle
		<a href="http://science.hq.nasa.gov/kids/imagers/ems/ems.html">http://science.hq.nasa.gov/kids/imagers/ems/ems.html</a>	Electromagnetic waves – a NASA site
		<a href="http://phet.colorado.edu/new/simulations/sims.php?sim=Balloons_and_Static_Electricity">http://phet.colorado.edu/new/simulations/sims.php?sim=Balloons_and_Static_Electricity</a>	Fantastic site Sound frequency interference nature of waves

Useful links to science websites

			<a href="http://phet.colorado.edu/new/simulations/sims.php?sim=Color_Vision">http://phet.colorado.edu/new/simulations/sims.php?sim=Color_Vision</a>	Physics of colour simulation
			<a href="http://www.hazelwood.k12.mo.us/~grichert/explore/dswmedia/lenscon.htm">http://www.hazelwood.k12.mo.us/~grichert/explore/dswmedia/lenscon.htm</a>	Ray tracing – ray diagrams with convex lenses of different focal length
			<a href="http://phet.colorado.edu/new/simulations/sims.php?sim=Sound">http://phet.colorado.edu/new/simulations/sims.php?sim=Sound</a>	Sound interference simulation can change and hear signal generator frequency
			<a href="http://www.solpass.org/5s/soundwave.htm">http://www.solpass.org/5s/soundwave.htm</a>	Sound waves animation showing air particles
			<a href="http://library.thinkquest.org/19537/">http://library.thinkquest.org/19537/</a>	The Soundry is an exciting, interactive, and educational web site about sound. Covering everything from the most basic concepts of what sound actually is to the specifics of how humans perceive it,
			<a href="http://www.ltscotland.org.uk/5to14/resources/science/oscilloscope.asp">http://www.ltscotland.org.uk/5to14/resources/science/oscilloscope.asp</a>	Virtual oscilloscope to show wave properties animation
			<a href="http://www.glenbrook.k12.il.us/GBSSCI/PHYS/Class/sound/u111b.html">http://www.glenbrook.k12.il.us/GBSSCI/PHYS/Class/sound/u111b.html</a>	Sound waves – animations and notes
			<a href="http://library.thinkquest.org/19537/java/Wave.html">http://library.thinkquest.org/19537/java/Wave.html</a>	Change the shape of a wave and hear sound
			<a href="http://illuminations.nctm.org/ActivityDetail.aspx?ID=37">http://illuminations.nctm.org/ActivityDetail.aspx?ID=37</a>	Experimental simulation – can change the tension and displacement of a string and see and hear the result on the string and sound
			<a href="http://www.nde-ed.org/EducationResources/HighSchool/Sound/hs_sound_index.htm">http://www.nde-ed.org/EducationResources/HighSchool/Sound/hs_sound_index.htm</a>	Large website on physics of sound
Electricity and magnetism	Electrostatics		<a href="http://phet.colorado.edu/new/simulations/sims.php?sim=Balloons_and_Static_Electricity">http://phet.colorado.edu/new/simulations/sims.php?sim=Balloons_and_Static_Electricity</a>	Static electricity simulation
	Electric currents and circuits		<a href="http://phet.colorado.edu/new/simulations/sims.php?sim=Circuit_Construction_Kit_DC_Only">http://phet.colorado.edu/new/simulations/sims.php?sim=Circuit_Construction_Kit_DC_Only</a>	Simple circuit simulation
			<a href="http://www.sciencejoywagon.com/physicszone/otherpub/wfendt/ohmslaw.htm">http://www.sciencejoywagon.com/physicszone/otherpub/wfendt/ohmslaw.htm</a>	Ohms Law simulation
	Electronics		<a href="http://www.kpsec.freeuk.com/symbol.htm">http://www.kpsec.freeuk.com/symbol.htm</a>	Electronic symbols

Useful links to science websites

		Magnetism		
		Electromagnetic induction	<a href="http://phet.colorado.edu/new/simulations/sims.php?sim=Faradays_Electromagnetic_Lab">http://phet.colorado.edu/new/simulations/sims.php?sim=Faradays_Electromagnetic_Lab</a>	Faradays Laws Simulation induction etc
			<a href="http://www.howstuffworks.com/electromagnet.htm">http://www.howstuffworks.com/electromagnet.htm</a>	How electromagnets work – large site with animations
			<a href="http://www.physclips.unsw.edu.au/jw/electricmotors.html">http://www.physclips.unsw.edu.au/jw/electricmotors.html</a>	Eclectic Motors and Generators animations + notes
	Atomic and nuclear physics	<ul style="list-style-type: none"> <li>• Atomic structure</li> <li>• Photo ionic emission and radioactivity</li> </ul>	<a href="http://www.atomicarchive.com/Movies/Movie4.shtml">http://www.atomicarchive.com/Movies/Movie4.shtml</a>	Animation on Nuclear fission
			<a href="http://www.classzone.com/books/earth_science/terc/content/visualizations/es0702/es0702page01.cfm?chapter_no=visualization">http://www.classzone.com/books/earth_science/terc/content/visualizations/es0702/es0702page01.cfm?chapter_no=visualization</a>	Animation on Nuclear fission
			<a href="http://library.thinkquest.org/17940/texts/fission/fission.html">http://library.thinkquest.org/17940/texts/fission/fission.html</a>	Notes and animations on how nuclear fission works
			<a href="http://hyperphysics.phy-astr.gsu.edu/hbase/nuclear/radact.html">http://hyperphysics.phy-astr.gsu.edu/hbase/nuclear/radact.html</a>	Radioactivity –notes and diagrams
			<a href="http://www.accessexcellence.org/AE/AEC/CC/historical_background.html">http://www.accessexcellence.org/AE/AEC/CC/historical_background.html</a>	Scientific biography of 4 physicists -radioactivity
			<a href="http://home.clara.net/darvill/nucrad/types.htm">http://home.clara.net/darvill/nucrad/types.htm</a>	<b>Notes diagrams and quizzes on radiation</b>
			<a href="http://ed.fnal.gov/projects/labyrinth/games/ghostbustin/geiger_counter/geiger.html?name=Marilyn+Fox">http://ed.fnal.gov/projects/labyrinth/games/ghostbustin/geiger_counter/geiger.html?name=Marilyn+Fox</a>	<b>Geiger counter with different radiation outputs - simulations</b>
			<a href="http://www.particleadventure.org/">http://www.particleadventure.org/</a>	an interactive tour of particle physics for everyone: the basics of theory and experiment
			<a href="http://hands-on-cern.physto.se/hoc_v21en/index.html">http://hands-on-cern.physto.se/hoc_v21en/index.html</a>	Particle physics explained – the work at CERN
				<a href="http://library.thinkquest.org/27948/decay.html">http://library.thinkquest.org/27948/decay.html</a>

Useful links to science websites

Integrated Science	Social Biology	Health		
		Disease		
		HIV and AIDS	<a href="http://www.corusgroup.com/en/responsibility/education/">http://www.corusgroup.com/en/responsibility/education/</a>	A vast range of on-line learning resources with a lot on steel
		Sustainable ecosystems	<a href="http://www.bbc.co.uk/schools/gcsebitesize/chemistry/usefulproductsrocks/iron_blastfurnacerev3.shtml">http://www.bbc.co.uk/schools/gcsebitesize/chemistry/usefulproductsrocks/iron_blastfurnacerev3.shtml</a>	BBC Bitesize: The Blast Furnace
	Industrial Science	Mineral extraction	<a href="http://www.bbc.co.uk/history/british/victorians/launch_ani_blast_furnace.shtml">http://www.bbc.co.uk/history/british/victorians/launch_ani_blast_furnace.shtml</a>	Historical look at the blast furnace good animation
			<a href="http://www.steel.org/AM/Template.cfm?Section=Home&amp;template=/CM/HTMLDisplay.cfm&amp;ContentID=5433">http://www.steel.org/AM/Template.cfm?Section=Home&amp;template=/CM/HTMLDisplay.cfm&amp;ContentID=5433</a>	How a blast furnace works
			<a href="http://www.matter.org.uk/steelmatter/sitemap.htm">http://www.matter.org.uk/steelmatter/sitemap.htm</a>	Massive site on steel making with video clips and notes
			<a href="http://www.uksteel.org.uk/">http://www.uksteel.org.uk/</a>	How steel is made – useful diagrams and notes
			<a href="http://science.howstuffworks.com/iron4.htm">http://science.howstuffworks.com/iron4.htm</a>	How iron and steel works – lots of notes and info
			<a href="http://www.chemguide.co.uk/inorganic/extraction/iron.html">http://www.chemguide.co.uk/inorganic/extraction/iron.html</a>	Good notes on iron and steel
<a href="http://www.sciencelessons.co.uk/example.php">http://www.sciencelessons.co.uk/example.php</a>			Aluminium electrolysis animation + some other useful science animations	
Organisms and the environment	Photosynthesis and human dependence on plants	<a href="http://resources.schoolscience.co.uk/abpi/drugs/index.html">http://resources.schoolscience.co.uk/abpi/drugs/index.html</a>	Infectious diseases and their treatment	
	Food chains, energy flow, carbon and nitrogen cycles	<a href="http://resources.schoolscience.co.uk/ABPI/immune/index.html">http://resources.schoolscience.co.uk/ABPI/immune/index.html</a>	Immune system	

Useful links to science websites

	Life processes	Nutrition, diet, malnutrition and food hygiene	<a href="http://school.discovery.com/ontv/videoclips/microworld1.html">http://school.discovery.com/ontv/videoclips/microworld1.html</a>	Microbiology video clips
		Digestive system structure and function	<a href="http://www.microbe.org/">http://www.microbe.org/</a>	KS3 Microbes interactive
		Reproductive system and its functions	<a href="http://nobelprize.org/educational_games/medicine/immunity/game/index.html">http://nobelprize.org/educational_games/medicine/immunity/game/index.html</a>	Immune system game form the Nobel Prize site
		Family planning	<a href="http://www.wellcome.ac.uk/en/malaria/">http://www.wellcome.ac.uk/en/malaria/</a>	Great Malaria Site
	Disease and its impact on humans	<ul style="list-style-type: none"> <li>• Health and disease</li> <li>• Organisms affecting human health</li> <li>• Chronic, genetic and transmissible diseases</li> <li>• Destruction of microorganisms and personal hygiene</li> <li>• Immunity and resistance to infection</li> <li>• Drug use and</li> </ul>	<a href="http://highered.mcgraw-hill.com/sites/0072437316/student_view0/chapter28/animations.html#">http://highered.mcgraw-hill.com/sites/0072437316/student_view0/chapter28/animations.html#</a>	Malarial lifecycle animation
			<a href="http://www.ash.org.uk/">http://www.ash.org.uk/</a>	Anti –smoking information and data
			<a href="http://www.bbc.co.uk/science/hottopics/">http://www.bbc.co.uk/science/hottopics/</a>	BBC Hot issues in science – cannabis, alcohol

Useful links to science websites

		abuse		
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