

Year 8 Science

	Electromagnets		Matter	Organisms	
Cycle 1	Science skills review Magnetism • Magnets • Magnetic fields Electromagnets • Electromagnets • Using electromagnets	Mid cycle 1 assessment	Elements • Elements • Atoms • Compounds • Chemical formulae • Polymers Periodic table • The periodic table • Group 1 elements • Group 7 elements • Group 0 elements	Breathing • Gas exchange • Breathing • Drugs • Alcohol • Smoking Digestion • Nutrients • Food tests • Unhealthy diet • Digestive system • Bacteria and enzymes	End of cycle 1 assessment
	Genes		Earth	Forces and Energy	
Cycle 2	Evolution • Natural selection • Charles Darwin • Extinction • Preserving biodiversity Inheritance • Inheritance • DNA • Genetics • Genetic modification	Mid cycle 2 assessment	Climate • Global warming • The carbon cycle • Climate change Earth resources • Extracting metals • Recycling	Contact forces • Friction and drag • Squashing and stretching • Turning forces Pressure • Pressure in gases • Pressure in liquids • Stress on solids Work • Work, energy and machines Heating and cooling • Energy and temperature • Energy transfer - particles • Energy transfer – radiation and insulation	End of cycle 2 assessment
	Reactions		Waves	Ecosystems	
Cycle 3	Types of reaction • Atoms in chemical reactions • Combustion • Thermal decomposition • Conservation of mass Chemical energy • Exothermic and endothermic • Energy level diagrams • Bond energies	Mid cycle 3 assessment	Wave effects • Sound waves and energy • Water waves and energy • Radiation and energy Wave properties • Modelling waves	Respiration • Aerobic respiration • Anaerobic respiration • Biotechnology Photosynthesis • Photosynthesis • Leaves • Investigating photosynthesis • Plant minerals	End of cycle 3 assessment