



Key Stage 3 Science Curriculum Maps

	AUTUMN															SPRING											SUMMER													
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	
YEAR 7	Topic – Intro to science					Topic – Life processes					Topic - Forces					Topic – Electricity					Topic –Materials					Topic – Elements & Compounds					Topic – Energy					Topic – Reproduction				
	Assessment – open book + Tri unit test + Yr 7/8/9 exam					Assessment – open book + Tri unit test + Yr 7/8/9 exam					Assessment – open book + Tri unit test + Yr 7/8/9 exam					Assessment – open book + Yr 7/8/9 exam					Assessment – open book + Yr 7/8/9 exam					Assessment – open book + Yr 7/8/9 exam					Assessment – open book + Yr 7/8/9 exam					Assessment – open book + Yr 8/9 exam				
	S – Hazards, Lab rules, Equipment					S - Cell Structure, Organs, Cell division Microscopy, plants					S – Floating, sinking, balanced forces, density, stretching, mass, weight, friction					S – symbols, conductor/insulator, safety, current/voltage					S – states, particle theory, diffusion, expansion, density					S – Elements, compounds & mixtures, periodic table					S – Energy types, conservation, energy transfers, renewable vs non-renewable, environment					S – Sex cells, types of reproduction, Fertilisation, pregnancy, cycles, plants				
	P – Investigative write up					P - Making a microscope slide					P – Investigations + application					P – circuit diagrams					P – Interpreting graphs					P – formulae, investigations					P – make comparisons via project work					P – predict the effect of hormones, describe the effect of seed dispersal				
	Sk – basic lab equipment safety, Heating, Measuring					Sk - Making a microscope slide					Sk – measuring, data analysis					Sk – assemble circuits, series/parallel, fault find					Sk – drawing/ scaling graphs					Sk – recording observations, experimental skills, applications					Sk – use ICT to monitor/detect temperature.					Sk – plant dissection				
											Tri unit test															DATA Task														
YEAR 8	Topic – Magnets					Topic – HAO1					Topic - Sound					Topic – HAO2					Topic – Acids, Bases + salts					Topic – Light					Topic – Separation of mixtures					Topic – Rocks				
	Assessment – open book + Tri unit test + Yr 8/9 exam					Assessment – open book + Tri unit test + Yr 8/9 exam					Assessment – open book + Tri unit test + Yr 8/9 exam					Assessment – open book + Yr 8/9 exam					Assessment – open book + Yr 8/9 exam					Assessment – open book + Yr 8/9 exam					Assessment – open book + Yr8/9 exam					Assessment – open book + Yr 9 exam				
	S – Poles, magnetic fields, uses, electromagnetism					S – Diet, RDA, digestive system, enzymes					S – vibrations, frequency/pitch/decibels					S – Respiratory/ CV system, muscles/ skeleton, drugs, smoking, alcohol, microbes, disease					S – Uses of, what are they, neutralisation,					S – reflection, refraction, filters					S – techniques, solubility, chromatography, saturation					S – Earth structure, types/uses, rock cycle, weathering, C- cycle				
	P – know how to test a magnet					P – Food tests method					P – interpret diagrams					P – testing					P – predict filter effect,					P – experimental techniques, application					P – describe the process of rock formation									
	Sk –investigate electromagnets, show field lines					Sk – food tests, enzyme practical					Sk – determine the speed of sound					P – explain adaptations, breathing, muscle & movement					Sk – testing/ observing					Sk – draw reflection/refraction diagrams					Sk -experimental techniques, analysing results					Sk – ID types of rock based on appearance				
											Tri unit test															DATA task														

				Sk – measure fitness				
YEAR 9	Topic – Space Assessment – Tri unit + Yr 9 exam S – Gravity, changing ideas, day/night, seasons, sun+stars P – Sk – evaluate evidence, explain/describe causes	Topic – Ecology Assessment – Tri unit+ Yr 9 exam S – photosynthesis, food chains, predator/prey, adaptations P – measuring photosynthesis Sk – test leaf for starch	Topic – Variation & Inheritance Assessment – Tri unit + Yr 9 exam S – Inheritance, discrete/continuous data, Genes, DNA, selective breeding/cloning P – choose/construct graphs, analyse Sk – measure variation (frequency)	Topic – Chemical Reactions Assessment – EOTT + Yr 9 exam S – Oxidation, metals, acids, displacement, endo/exothermic P – experiments/ predictions Sk – record observations/ experiments Tri unit test	Topic – Forces 2 Assessment – EOTT unit + Yr 9 exam S – Speed, parachutes, pressure, moments P – use formulae, interpret results Sk – ramp height investigation, variables	Topic – Investigative skills Assessment - Yr 9 exam + GCSE's S – hypothesis, methodology, tables/graphs, conclusions P – Be able to reason Sk – produce hypothesis, tables, graphs, conclusions DATA Task	Topic – KS3 Revision Assessment – Yr 9 exam	Topic – Periodic table + Energy Assessment – EOTT + Yr 10 exam+ Yr 11 mock S – development of the periodic table, types of fuel Sk –link evidence to theories

Note – Yr 7/8 topics have tri unit exams just before the end of each respective term, during the term modules may be completed in a different order to accommodate equipment clashes. Yr 9 topics may be done in a different order to also accommodate equipment clashes.