SCIENCE CURRICULUM MAP PLAN

Year	Autumn 1		Autumn 2		Spring 1		Spring 2		Summer 1		Summer 2	
Group												
7 Key ideas in each subject are introduced: cells, particles and forces. These are then extended and applied to wider context in a sequence of interleaved topics that allow rehearsal of ideas introduced earlier.	Working Scientifically Safety & hazards, scientific apparatus, scientific terminology, using a Bunsen burner, drawing graphs, identifying variables and experimental skills	7B1 Cells Plant & animal cells, observing cells, specialised cells, movement of substances (diffusion), unicellular organisms	7C1 Particles and their behaviour Particle model, states of mater, changes of states of matter, diffusion, gas pressure	7P1 Forces Squashing and stretching, drag and friction, forces at a distance and balanced forces	7B2 Structure and Function of Body systems Levels of organisation, gas exchange, breathing, skeleton, movement joints & movement muscles	7C2 Elements, Atoms and Compounds Elements & atoms, compounds & chemical formulae	7P2 Sound Waves, energy transfer, Loudness, pitch & detecting sound, echoes & ultrasound	7B3 Reproduction Reproductive organs, implantation, development of a foetus, the menstrual cycle, flowers & pollination, germination & seed dispersal	7C3 Reactions Chemical reactions, burning fuels, thermal decomposition, conservation of mass and endothermic & exothermic reactions	7P3 Light Light, reflection, refraction, the eye & the camera and colour	7C4 Acids and Alkalis Acids & alkalis, making salts and neutralisation	7P4 Space The solar system, the Earth & the moon
8 In the second year of KS3 topics are introduced that build upon multiple concepts learned across KS2 & KS3. In physics, more abstract concepts such as electricity and energy.	8P1 Electricity and Magnetism Charge, Current, Potential Difference, Circuits, Series & Parallel circuits, Resistance, Magnetic Fields, Electromagnets.	8C1 The Periodic Table Groups & Periods, Metals & Non-metals, Group 1, 7 and 0	8B1 Health and Lifestyle Nutrients, Food tests, Unhealthy diet, Digestive system, Drugs, Alcohol and Smoking	8C2 Separation Techniques Mixtures, solutions & solubility, Filtration and Distillation & Chromatography	8P2 Energy Food & Fuel, Energy Changes, Temperature, Conduction, Convection, Radiation, Energy Resources, Energy & Power, Work done & Machines	8B2 Ecosystems and Processes Photosynthesis, Leaf Structure, Plant Minerals, Chemosynthesis, Respiration & Food Chains	8C3 Metals and Acids Metals & Acids Metals & oxygen, Metals & water, Metal displacement, metal extraction and Ceramics, polymers &composites	 BP3 Motion and Pressure Speed and Motion, Speed and Motion Graphs, Pressure in Gases & Liquids, Pressure in Solids and Turning Forces 	8B3 Adaptations and Inheritance Competition & Adaptation, Adapting to change, Variation, Inheritance, Natural Selection		8C4 The Earth The Earth & its atmosphere, the Rock Cycle, Sedimentary, Igneous & Metamorphic Rocks, the Carbon Cycle and Climate Change & Recycling.	

SCIENCE CURRICULUM MAP PLAN

9	Wor	9B1&B2	9C1&C2	9P1 Energy	9B3&B4	9C3	9P2&P3	9B5	9C4	9P4 Density	9B6	9C5 & 9C7	9P5 &	9B7	9C6 & 9C8	9P7 & 9P8
Key ideas from	king	Cells	Foundations of	Stores, work	Tissues,	Bonding	Electricity	Communicable	Metals	& changes	Photosynth	Reactions	9P6	Ecology	Carbon	Waves and
Y7&8 are	Scie	Plant,	chemistry:	done,	organs,	Dot and	Circuit	diseases	and	of state	esis and	Endo/	Forces &	Feeding	chemistry	electro-
reviewed in a	ntific	animal and	The atom,	gravitational	and	cross	symbols,	Pathogens,	acids	Regular and	Respiration	exothermic	motion	relationsh	and the	Magnetism
cyclical	ally	bacterial	electronic	potential	systems	diagrams to	V=IR, Q=It	prevention, role	Reactio	irregular	Words	reactions,	Scalars &	ips,	Earth's	Wave
manner,		cell	structure,	energy,	In animals	show the		of the immune	ns, pH,	volumes,	equations,	purity, and	vectors,	predator	atmosphere	characteris
building upon		structure,	development of	kinetic	and	structure of		system	hydrog	density	uses of	Chromatogra	W=mg,	prey	Alkanes,	tics,
and extending		division,	models of the	energy,	plants	ionic and			en ions		glucose,	phy	free body	cycles	global	electromag
prior		and	atom and the	energy		covalent					exercise		diagrams		warming	netic
knowledge,		transport	periodic table.	dissipation		compounds										spectrum,
taking																plot
advantage of																magnetic
developments																field
in student																
literacy and																
numeracy.																

Respect | Aspire | Achieve