

Curriculum Sequencing Overview – Year 8 Science

Week	1	2	3	4	5	6	7	8
Unit Theme and Assessed Knowledge/ Skills	Chemistry Unit 4: Acids & Alkalis				Physics 4 Energy			
Lesson Topics Sequence & Content	C4.1 Working Safely with acids & alkalis C4.2 Identifying acids & alkalis	C4.3 Everyday acids & alkalis C4.4 Making indicators C4.5 The pH scale	C4 Acids & Alkalis Assess C4.6 Reactions of acids – making salts C4.7 Neutralisation	C4.8 Indigestion C4.9 Acid + Metal C4.10 Acid Rain	C4 Acid Reactions assess & start P4.1 Energy Stores P4.2 Formation of fossil fuels P4.3 Advantages & Disadvantages of fossil fuels.	P4.4 Renewable Energy resources P4.5 Conservation of Energy P4 Energy Stores & Resources assess	P4.7 Energy from fuels P4.8 Conduction P4.9 Convection	P4.10 Radiation P4.11 Insulation P4.12 Energy = Work done & Assess Phys 4 Thermal Energy
Key Assessments			C4 Acids & Alkalis		C4 Acid Reactions	P4 Energy Stores & Resources		Phys 4 Thermal Energy



Week	9	10	11	12	13	14	15	16	
Unit Theme and Assessed Knowledge/ Skills	Biology 4 Part 1: Plant Biology	Chemistry 5 Reactions					B5 Genetics		
Lesson Topics Sequence & Content	B4.1 Photosynthesis B4.2 Light intensity B4.3 Leaves	B4.4 Minerals & Fertilisers B4.5 Stomata & Biol 4 Plant Biol Assess C5.1 Metal & non-metal properties	C5.2 Reactivity Series C5.3 Displacement Reactions C5.4 Metal & non-metal oxides	Review displacement reactions & C5 Metal Reactivity Assess C5.5 Exo & Endothermic Reactions C5.6 Catalysts	C5.7 Changes C5.8 Measuring Reactions	C5.9 Hydrocarbons & combustion C5.10 Thermal Decomposition (Seneca training if you are ahead here)	C5.11 Oxidation (Rusting) & C5 Reaction types Assess B5.1 Species B5.2 Variation	B5.3 Inheritance B5.4 Chromosomes, Genes, DNA B5.5 Classification	
Key Assessments		B4 Plant Biology		C5 Metal Reactivity Assess			C5 Reaction types		



Week	17	18	19	20	21	22	23	24
Unit Theme and Assessed Knowledge/ Skills	B5 Genetics		P5 Waves				B4 Part 2 Human Biology	
Lesson Topics Sequence & Content	B5 Inheritance & Classification assess & review rusting expt B5.6 Adaptation B5.7 Natural Selection	B5.8 Selective Breeding B5.9 Extinction B5.10 Gene Banks & topic review	B5 Adaptation & Evolution assess & P5.1 Sound vibrations (covered in primary school so whole lesson not needed) P5.2 Altering sound P5.3 Sound travels	P5.4 The Ear P5.5 Using Sound & P5 Sound Assess P5.6 Light (covered in primary so not whole lesson)	P5.7 Reflection P5.8 Refraction P5.9 Colour (miss if behind)	P5.10 Sound v Light P5.11 Waves & Speed P5 Waves Review & Light assess	B4 (part 2).7 Breathing B4.8 Alveoli & Gas exchange B4.9 Aerobic Respiration	B4.10 Anaerobic Respiration B4.11 Asthma & smoking B4.12 Circulatory System
Key Assessments	B5 Inheritance & Classification		B3 Adaptation & Evolution	P5 Sound		P5 Light		



Week	25	26	27	28	29	30	31	32
Unit Theme and Assessed Knowledge/ Skills		Phys 6 Applied Forces		Biology 6 Ecosystems				Biology 7 Disease
Lesson Topics Sequence & Content	B4.13 Heart B4.14 Exercise B4 part 2 Human Biol Assess & Review	P6.1 Levers P6.2 Turning Forces P6.3 Moments	P6.4 Pressure P6.5 Pressure in Gases P6.6 Pressure in Liquids	P6 Applied Forces Review & Assess B6.1 Ecosystems B6.2 Food Chains	B6.3 Food Webs & Pyramids of number B6.4 Importance of insects (skip if lose bank holiday lesson) B6.5 Populations	B6.6 Populations part 2 B6 Ecosystems & Sampling Assess & B6.7 Human Population (small lesson) B6.8 Biomagnification	B6.9 Air Pollution B6.10 Climate Change B6.11 Protecting the environment	B6 Review & Human impact assess B7.1 Bacterial Cells (merge with previous if behind) B7.2 Communicable disease
Key Assessments	B4 Human Biology			P6 Applied Forces		B6 Ecosystems & Sampling		B6 Human impact



Week	33	34	35	36	37	38	39
Unit Theme and Assessed Knowledge/ Skills	Biology 7 Disease			End of Year Exam, Revision & Intervention			
Lesson Topics Sequence & Content	B7.3 Bacterial Growth P7.4 Antibiotics B7.5 Viral infections	B7.6 Fungi and their uses B7.7 Body defences B7.8 Vaccination & Jenner story	B7.9 John Snow Revision – Biol weak area Revision – Chem weak area	Revision – Phys weak area Revision EoY Exam	Interventions on identified weaknesses	Investigation skills	CEW
Key Assessments				EoY Exam			