

Curriculum Sequencing Overview – Year 9 Science

Week	1	2	3	4	5	6	7	8
Unit Theme and Assessed Knowledge/ Skills	Biology KS4 Transition Unit 1 – Cells Chem KS4 Transition Unit 9 - Atmosphere							
Lesson Topics Sequence & Content – Main Teacher	B1.1 Prokaryotic & Eukaryotic B1.2 Plant & Animal Cells B1.3 Bacterial Cells	B1.4 Microscopes B1.5 Magnification	B1.6 RP Microscopes B1 Cells & Microscopes review & assess B1.7 Mitosis	B1.8 Cell Specialisation B1.9 Stem Cells	B1.10 Stem Cell ethics B1.11 Plant Stem Cells B1 Mitosis & Stem Cells assess	B1.12 Diffusion B1.13 Factors affecting diffusion	B1.14 Osmosis B1.15 RP Osmosis B1.16 RP Osmosis part 2	B1.18 Active transport B1.19 Exchange surfaces
Mr Cox	C9.1 Current Atmosphere		C9.2 Early Atmosphere		C9.3 Evolution of the atmosphere		C9.4 Greenhouse Gases	
Key Assessments			B1 Cells & Microscopes		B1 Mitosis & Stem Cells			



Week	9	10	11	12	13	14	15	16
Unit Theme and Assessed Knowledge/ Skills	KS4 Transition Chem 1: Atomic Structure & Periodic Table						Phys 1 Energy	
Lesson Topics Sequence & Content – Main Teacher	B1.20 Need for transport systems B1 Transport in Cells assess C1.1 Elements & Compounds	C1.2 Atoms, Formulae, Equations C1.3 Mixtures (KS3 recap)	C1.4 Changing ideas about atoms C1.5 Atomic Structure C1.5 Atomic Structure (part 2) & Assess C1 Chem Atoms, Elements, Compounds, Mixtures	C1.6 Electron Structure C1.7 Forming ions	C1.8 Periodic table C1.9 Group 1 C1.10 Group 7	C1.11 Group 0 C1.12 Reactivity trends & C1 Periodic Table trends Assess	P1.1 Energy Stores P1.2 Kinetic energy P1.3 Gravitational potential energy	P1.4 Work & Power Review & P1 Energy Calculations assess P1.5 Specific Heat Capacity
Mr Cox	C9.5 Climate Change		C9.6 Carbon Footprint		C9.7 Atmospheric Pollutants		C9 Atmosphere Assess	
Key Assessments	B1 Transport in Cells		C1 Chem Atoms, Elements, Compounds, Mixtures			C1 Periodic Table trends	C9 Atmosphere Assess	P1 Energy Calculations



Week	17	18	19	20	21	22	23	24
Unit Theme and Assessed Knowledge/ Skills	Phys 1 Energy		Biology 2 Organisation					Chemistry 2 Bonding
Lesson Topics Sequence & Content – Main teacher	P1.6 SHC Required Practical P1.7 Dissipation P1.8 Efficiency	P1.9 Insulation RP P1.10 Energy Resources	P1 Energy resources & practical review & assess B2.3 Food Testing RP B2.4 Enzymes	B2.5 Digestive Enzymes B2.6 RP pH & Enzymes	B2.6 RP pH & Enzymes pt2 B2 Food & Digestion Assess	B2.10 The Heart B2.13 Lungs B2.14 Alveoli	B2.17 Cancer C2 (pre) Revisiting ions	C2.1 Ionic Bonding C2.2 Ionic Compounds C2.3 Covalent Bonding
Mr Cox	B2.1 Organisational Hierarchy		B2.2 Digestive System Structure (review from KS3)		Seneca Training (slot in earlier if preferred)		B2.8 Circulatory System	
Key Assessments			P1 Energy resources & practical		B2 Food & Digestion			



Week	25	26	27	28	29	30	31	32
Unit Theme and Assessed Knowledge/ Skills	C2 Bonding	KS4 Phys 2 Electricity						
Lesson Topics Sequence & Content	C2.4 Metallic Bonding C2 Bonding types review & assess	(P2.1 & P2.2) Symbols & Modelling circuits <i>(not whole lesson on KS3 basics!)</i> P2.3 Current rules in circuits	P2.4 Charge P2.5 Resistance (investigating circuits)	P2.5 Resistance P2.6 RP Resistance of a wire P2.7 RP Resistance of a wire pt 2	P2.8 RP I-V Characteristics (Resistor) P2.8 RP I-V Characteristics (Bulb & Diode)	P2 Current Electricity Review & Assess P2.10 Series & Parallel P2.9 LDR & Thermistor	P2.11 Electricity at home P2.12 Wiring a plug	P2.13 Power P2.14 National Grid P2 Mains elec review & assess
Mr Cox	B2.9 Blood		B2 Circulatory System review & assess		B2.11 CHD		B2.12 Heart disease treatments	
Key Assessments	C2 Bonding types		B2 Circulatory System			P2 Current Electricity		



Week	33	34	35	36	37	38	39	40	
Unit Theme and Assessed Knowledge/ Skills	Revision, End of Year Exams & Intervention								
Lesson Topics Sequence & Content	Targeted Biology intervention Targeted Chem intervention	Targeted Phys intervention Seneca / General Revision	General Revision	EoY Exam – Biol EoY Exam – Chem EoY Exam - Phys	Exam Reviews & Interventions	RP – mystery food RP – resistance of pencil lines	CEW		
Mr Cox	B2.15 Health & Risk Factors		B2.16 Lifestyle & Smoking		B2 Non-communicable disease assess				
Key Assessments				EoY Exams	B2 Non-communicable disease assess				