

## **Curriculum Sequencing Overview – Year 10 Combined Science**

Week	1	2	3	4	5	6	7	8
Unit Theme and Assessed Knowledge/ Skills	Biology Unit 4 Bioenergetics & Biology 2 Plant Biology						Chem 3 Quantitative Chemistry	
	B4.1	B4.4 Increasing	B2.21 Factors	B4.6 Aerobic	Biol 3 Types of	Seneca	Biol Paper 1	C3.5 Masses &
	Photosynthesis	Food	affecting	Respiration	Disease &	Training (can	Mock Review	gases
		production	transpiration		revisited	slot in earlier if		
	B4.2 Light	(HT)		B4.7 Anaerobic		available)	Biol Paper 1	C3.6 (HT)
	intensity RP		B2.22	Respiration in	Biol 3		Class	Moles
		B2.18 Leaf	Translocation	humans	immunity &	Biol Paper 1	intervention	
	B4.3 Light	Structure			vaccination	Mock exam		C3.7 (HT)
Lesson Topics	intensity RP		B4.5 Uses of	B4.8 Response	revisited		C3.3 % by	Reacting
Sequence &	part 2	B2.19 Stomata	Glucose	to exercise		Chem 3.1	mass	masses
Content					Biol 3 Drug	Equations &		
		B2.20	<b>B4 Plant Biol</b>	B4.9 Anaerobic	development	Balancing	C3.4	C3.8 (HT)
		Transpiration	review &	respiration in	revisited		Measurement	Using Moles
			assess	plants & yeast		C3.2 Ar & Mr	& Uncertainty	
					Biol 2 Heart			
					disease risk			
					factors &			
					treatments			
			D4 Dloot Diel		revisited	Riol Donos 1		
Key			B4 Plant Biol			Biol Paper 1 Mock exam		
Assessments						WIOCK Exam		



Week	9	10	11	12	13	14	15	16
Unit Theme and Assessed Knowledge/ Skills			Chem 4 Chei	mical Changes	Chem 5 Energy Changes	Phys 3 Pai	rticle Model	
	C3.9 (HT) Limiting	Chem 4.1 Metal Oxides	C4.5 Metals & Acids	C4.9 pH & neutralisation	C4.13 Electrolysis of	C5.1 Endo/Exo reactions	C5.4 Calculating	P3.3 Change of State
	Reactants	C4.2 Reactivity Series	C4.6 Neutralisation	C4 Metal reactions	molten C4.14	C5.2 RP Temp changes (FT	Energy Changes (HT)	P3.4 Internal Energy
	C3.10			review &	Electrolysis &	should take 2	C5 Assess	
Lancau Taulin	Concentration	C4.3 Extraction of metals	C4.7 Making soluble salts	assess	Metal extraction	lessons)	P3.1 Density	P3.5 SHC
Lesson Topics Sequence &	С3	of filetais	Soluble Saits	C4.11 (HT)	(aluminium)	C5.3 Reaction	PS.1 Delisity	P3.6 Latent
Content	Quantitative Assess	C4.4 Displacement Reactions	C4.8 Making salts pt 2	Strong & Weak acids	C4.15 Electrolysis of solutions	Profiles	P3.2 RP Density	Heat
				Electrolysis	C4.16 RP electrolysis of solutions			
Key Assessments	C3 Quantitative			C4 Metal Reactions			C5 Energy Changes	



Week	17	18	19	20	21	22	23	24
Unit Theme and Assessed Knowledge/ Skills	Phys 4 Atomic Structure & Radioactivity					Biol 5 Homeostasis & Response		
Lesson Topics Sequence & Content	P3.7 Particle motion in gases  P3 Particle model Review & Assess  P4.1 Atomic Structure  P4.2 Model of the atom	Chem 1 isotopes & abundance – not covered in Yr9  P4.3 Radioactivity  P4.4 Nuclear equations  P4.5 Half Life	P4.6 Irradiation & Contamination  P4 Radioactivity Review & Assess  Phys / Chem paper 1 weak area focus  Phys / Chem paper 1 weak area focus	Chem Paper 1 Revision  Phys Paper 1 Revision  Chem Paper 1 Mock  Phys Paper 1 Mock	Chem Paper 1 Mock review  Chem 1 intervention  Phys Paper 1 Mock Review  Phys 1 intervention	B5.1 Homeostasis B5.2 Nervous System B5.3 Reflex actions B5.5 Ruler drop RP	B5.10 Endocrine system  B5.11 Blood Glucose  B5.12 Diabetes  B5.13 Diabetes recommendations	B5.19 Human Reproduction  B5.20 IVF (HT, but can teach to all for cultural capital)  B5.21 IVF evaluation (HT)  B5.23 Contraception
Key Assessments	P3 Particle Model		P4 Radioactivity	Chem & Phys Paper 1 Mocks				



Week	25	26	27	28	29	30	31	32
Unit Theme and Assessed Knowledge/ Skills				B6 In	heritance			Revision
	Work	Biol 5 Review	B6.4 Sexual &	B6.8 Variation	B6.12	B6.16 GMO	B6 Review &	P2 Mains elec
	Experience	& Assess	asexual	pt2	Antimicrobial	debate	Asses	
			reproduction		resistance			P1 & P2 Power
		B6.1 DNA	B6.5 Genetic	B6.9 Natural		B6.17	P2 Current &	& Energy
			cross diagrams	Selection	B6.13	Classification	resistance in	equations
		B6.2 Human			Selective		circuits	recall &
Lesson Topics		Genome	B6.6 Inherited	B6.10 Fossils	breeding in	B6.18		handling
Sequence &		project	disorders	& Fossil	animals	Evolutionary	P2 Resistance in	
Content				Evidence	B6.14	trees	bulb, lamp &	P1 Energy
		B6.3 Meiosis	B6.7 Variation		Selective	B6.19	diode RP	stores,
				B6.11	breeding in	Extinction		efficiency &
				Examples of	plants		P2 Resistance in	dissipation
				evolution	DC 45 Caratia		wire	D 1
					B6.15 Genetic			Paper 1 variables in
					modification			RPs
		Biol 5					B6 Inheritance	5
Key		Homeostasis						
Assessments		Assess						



Week	33	34	35	36	37	38
Unit Theme and Assessed Knowledge/ Skills		Biol 7	Ecology			
	B7.1	B7.5	B7.8 Water	B7.12	Biol Paper 2	Biol 2 Mock
	Ecosystems B7.2 Pred-prey	Adaptations in animals	Cycle	Maintaining biodiversity	mock exam	Review
			B7.9 Land use		Chem 8.1 Pure	Biol 2
<b>Lesson Topics</b>	B7.3 Sampling	B7.6		B7 Assess	substances	intervention
Sequence &	pt1	Adaptations in	B7.10 Global			
Content		plants	Warming	Biol Paper 2	C8.2	C8.3 & 4
	B7.4 Sampling			revision	Formulations	Chromatog RP
	pt2	B7.7 Carbon	B7.11 Waste			
		Cycle	management			C8.5 Gas tests
				B7 Ecology	Biol Paper 2 Mock	
Key Assessments						