

Key Stage 5 Curriculum Map 2021-22

Year 13 A level Biology

Term 1

Subject: Biology	Year: 13		
Focus/Topic	UAE Links	HPL Links	Home Learning / Reading
Induction, curriculum orientation and expectations			
Populations and ecosystems	Research and outline what happened	VAA: Empathetic	Guided reading
 Investigating populations 	to the Arabian leopard population.	Collaborative: The ability to	
 Variation in population size 		seek out opportunities to receive	
Sensory reception		responses to your work; present your own views and ideas clearly	
Role of receptors		and concisely; listen to the views	
 Interactions between organisms – competition 	Analyse data and outline the	of others; be willing and able to	Guided reading
 Interaction between organisms – predation 	interdependence of organsisms	work in teams; take a variety of roles and be able to evaluate	
Succession	within the UAE.	your own ideas and	
 The nervous system and neurones 		contributions.	
The nerve impulse			
 Conservation of habitats 	Research and outline how the UAE is		Guided reading
Required practical 9	conserving its environment.	ACP: Analysing	
 Passage of an action potential 		Critical thinking: The ability to deduct, hypothesise, reason,	
Speed of the nerve impulse		seek supporting evidence	
 Populations end of topic test 	Outline how xerophytes are adapted		Guided reading
 Photosynthesis 	to balance photosynthesis and water		
 Structure and function of synapses 	loss		
 Transmission across a synapse 			
The light dependent reaction	Justify the importance of the UAE		Guided reading
 The light independent reaction 	investing in neurological research.		
 Factors affecting photosynthesis 			
 Response to stimuli end of topic assessment 			

Required practical 7	Justify the importance of the UAE		Guided reading
Glycolysis	investing in research into skeletal		
Structure of skeletal muscles	muscles.		
Contraction of skeletal muscle			
	Mid Term Break		
Aerobic respiration	Justify the importance of Kreb's	VAA: Agile	Guided reading
Link reaction and krebs cycle	research to the UAE.	Open minded: The ability to	
Electron transfer chain		take an objective view of	
Tropisms and auxins		different ideas and beliefs; become more	
Ethene and abscisic acid		receptive to other ideas and	
Respiratory substrates	Evaluate the storage of lipids in a	beliefs based on the arguments	Guided reading
Required practical 8	camel's hump.	of others; change ideas should there be compelling evidence to do so.	
Required practical 10			
Photosynthesis and respiration end of topic test	Create a food web of organisms		Guided reading
Food chains and food webs	within the UAE.	ACP: Linking	
Skeletal muscles and control systems in plants		Connection finding: The	
end of topic test		ability to use connections from	
Energy transfer between trophic levels	Compare a farm in the UAE with a	past experiences to seek possible generalisations	Guided reading
Ecological pyramids	farm in the UK.	possible generalisations	
Energy transfer in agricultural ecosystems			
The principles of homeostasis			
Chemical and biological control of agricultural	Evaluate the intensive rearing of		Guided reading
pests	domestic livestock in the UAE.		
Intensive rearing of domestic livestock			
The principles of feedback mechanisms			
Energy and ecosystems end of topic test	Research and outline diabetes in the		Guided reading
The need to control blood glucose concentration	UAE.		
Hormones and the regulation of blood glucose			
Control of the heart	Justify the importance of the UAE		Guided reading
Homeostasis and negative feedback end of topic	investing in research the heart,		
test			
	Winter Break	I .	l