

Key Stage 5 Curriculum Map 2020-21

Year 13 A level Biology

Term 1

Subject: Biology	Year: 13	
Focus/Topic	UAE Links	Home Learning / Reading
Induction, curriculum orientation and expectations		-
Populations and ecosystems	Research and outline what happened to	Guided reading
Investigating populations	the Arabian leopard population.	
Variation in population size		
Sensory reception		
Role of receptors		
Interactions between organisms – competition	Analyse data and outline the	Guided reading
 Interaction between organisms – predation 	interdependence of organsisms within	
Succession	the UAE.	
The nervous system and neurones		
The nerve impulse		
Conservation of habitats	Research and outline how the UAE is	Guided reading
Required practical 9	conserving its environment.	
 Passage of an action potential 		
Speed of the nerve impulse		
Populations end of topic test	Outline how xerophytes are adapted to	Guided reading
Photosynthesis	balance photosynthesis and water loss	
Structure and function of synapses		
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 Ter	m Break		
Aerobic respiration	Justify the importance of Kreb's research	Guided reading	
Link reaction and krebs cycle	to the UAE.		
Electron transfer chain			
Tropisms and auxins			
Ethene and abscisic acid			
Respiratory substrates	Evaluate the storage of lipids in a	Guided reading	
Required practical 8	camel's hump.		
Required practical 10			
 Photosynthesis and respiration end of topic test 	Create a food web of organisms within	Guided reading	
Food chains and food webs	the UAE.		
 Skeletal muscles and control systems in plants end of topic test 			
Energy transfer between trophic levels	Compare a farm in the UAE with a farm	Guided reading	
Ecological pyramids	in the UK.		
Energy transfer in agricultural ecosystems			
The principles of homeostasis			
Chemical and biological control of agricultural pests	Evaluate the intensive rearing of	Guided reading	
 Intensive rearing of domestic livestock 	domestic livestock in the UAE.		
 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 test 	investing in research the heart,		
Winter Break			