

Key Stage 4 Curriculum Map 2021 - 2022

Year 10 GCSE Biology

Term 1

Subject: Biology	Year: 10		
Focus/Topic	UAE Links	HPL Links	Home Learning /
			Reading
Induction, curriculum orientation and expectations			
Animal and plant cells	Compare the plant cell of a cactus	VAA: Empathetic	Guided reading
Eukaryotic cells	and an oak tree.	Collaborative: The ability to seek out	
Specialized cells		opportunities to receive responses to your work; present	
Tissues and organs	Research how desert animal's organ	your own views and ideas clearly and concisely; listen to the views of others; be willing and able to work in teams; take a variety of roles and be	Guided reading
Organ system	systems are adapted to survive		
Cells End of topic test	Justify why diffusion is faster in the	able to evaluate your own ideas and	Guided reading
• Diffusion	UAE compared with Antarctica	contributions.	
Osmosis	Evaluate whether the UAE should	ACP: Analysing Critical thinking: The ability to deduct, hypothesise, reason, seek supporting evidence	Guided reading
Osmosis required practical	utilise reverse osmosis		
Active transport	Create a summary about active		Guided reading
Transport into and out of cells End of topic test	transport within the UAE.		
Cell division, growth and differentiation	Evaluate whether the UAE should		Guided reading
Cell division in sexual reproduction	invest in research into cell division.		
	Half Term		
Stem cells	Evaluate whether the UAE should	VAA: Agile	Guided reading
 Cell growth and cancer 	utilise stem cells and if so, justify	Open minded: The ability to take an objective	
	what for.	view of different ideas and beliefs; become more receptive to other ideas and beliefs based on the	
 Cell division end of topic test 	Justify why we have large insects	arguments of others; change	Guided reading
 Exchanging materials 	within the UAE.		

Breathing and gas exchange in the lungsArtificial breathing aids	Create a summary about respiratory disorders within the UAE	ideas should there be compelling evidence to do so.	Guided reading
 Anaerobic respiration The effect of exercise on the body required practical 	Design an investigation into how the effect of exercise on the body differs in the UAE when compared to the UK.		Guided reading
Breathing end of topic testThe circulatory system and the heart	Justify the importance of blood donation within the UAE		Guided reading
Helping the heartKeeping the blood flowing	Create a summary about coronary heart disease within the UAE		Guided reading
 Transport in the blood The immune system and blood groups Circulation end of topic test 	Create a summary about blood disorders within the UAE		Guided reading
·	Winter Break	,	1