

Key Stage 5 Curriculum Map 2021-22

Year 13 A level Biology

Term 3

Subject: Biology	Year: 13		
Focus/Topic	UAE Links	HPL Links	Home Learning / Reading
<ul style="list-style-type: none"> • Selection • Speciation • Inheritance and selection end of topic test • Producing DNA fragments • In vitro gene cloning – the polymerase chain reaction 	Use the theories of selection and speciation to justify why a camel looks the way it does.	VAA: Hardworking Practice <i>the ability to train and prepare through repetition of the same processes in order to become more proficient</i>	Guided reading
<ul style="list-style-type: none"> • In vivo gene cloning – the use of vectors • Use of recombinant DNA technology • Recombinant DNA technology end of topic test and feedback • 3.3.1 The effect of Biotic and abiotic factors on populations (including practical 9) Revision • 3.3.2 Photosynthesis revision 	Why is researching in vivo gene cloning important to the UAE?	ACP: Metathinking Self regulation: <i>the ability, to monitor, evaluate and self correct</i>	Guided reading
<ul style="list-style-type: none"> • 3.3.5 Nutrient cycles revision • 3.3.7 Alleles frequencies in populations revision • 3.3.3 Respiration revision • UNIT 3 in school assessment 	Research what type of fertilisers the UAE use and justify how they could improve their farming practice to make them more sustainable		Guided reading
<ul style="list-style-type: none"> • 3.4.10 Recombinant DNA technology revision • 3.4.5 Control systems in plants revision • 3.4.7 Hormones and the control of blood glucose concentration revision • UNIT 4 in school assessment 	Why is researching in vivo gene cloning important to the UAE?		

<ul style="list-style-type: none"> • 3.4.9 Regulation of transcription and translation revision • 3.1.3 Biochemical reactions in cells are controlled by enzymes (including required practical 1) revision • 3.2.6 The circulation of blood and the structure of the mammalian heart (including required practical 5) revision • UNIT 5 in school assessment 			Guided reading
23.05.22 A level Biology Unit 3 Drop in sessions			
<ul style="list-style-type: none"> • 3.2.11 Mutation and cancer revision • 3.1.2 Cells and cell structure revision • 3.3.8 Evolution may lead to speciation revision • 3.1.4 Transport into and out of cells revision • 3.3.2 Photosynthesis (including required practical 7) revision 	Compare the plant cell of a cactus and an oak tree.	VAA: Hardworking <i>Practice the ability to train and prepare through repetition of the same processes in order to become more proficient</i>	Guided reading
<ul style="list-style-type: none"> • 3.3.7 Allele frequencies in the population revision • Revision directed by learners 	Create a summary the allele frequencies of the human genome within the UAE and discuss any trends	ACP: Metathinking <i>Self regulation: the ability, to monitor, evaluate and self correct</i>	Guided reading
09.04.22 A level Biology Unit 4 Drop in sessions			
14.04.22 A level Biology Unit 5 Drop in sessions			
Wellbeing activities			
Wellbeing activities			
End of term 2			