

Key Stage 4 Curriculum Map 2021 - 2022

Year 11 GCSE Biology

Term 1

Subject: Biology		Year: 11	
Focus/Topic	UAE Links	HPL Links	Home Learning / Reading
<ul style="list-style-type: none"> • Photosynthesis • Limiting factors • How plants use glucose • Exchange in plants 	Discuss how plants are adapted to carry out photosynthesis in the UAE.	VAA: Empathetic Collaborative: <i>The ability to seek out opportunities to receive responses to your work; present</i>	Guided reading
<ul style="list-style-type: none"> • Transport systems in plants • Plants end of topic test • Principles of homeostasis 	Research how plants are adapted to limit water loss in the UAE.	<i>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 able to evaluate your own ideas and contributions.</i> ACP: Analysing Critical thinking: <i>The ability to deduct, hypothesise, reason, seek supporting evidence</i>	Guided reading
Year 11 Mocks			
Year 11 Mocks			
<ul style="list-style-type: none"> • Removing waste products • The human kidney • Controlling body temperature • Controlling blood glucose 	Design an investigation into how the effect of exercise on the body differs in the UAE when compared to the UK.	VAA: Empathetic Collaborative: <i>The ability to seek out opportunities to receive responses to your work; present</i>	Guided reading
<ul style="list-style-type: none"> • Treating diabetes • Homeostasis end of topic test 	Research and outline how a camel is adapted to regulate it's body temperature.	<i>your own views and ideas clearly and concisely; listen to the views of others; be willing</i>	Guided reading

<ul style="list-style-type: none"> Inheritance 		<p><i>and able to work in teams; take a variety of roles and be able to evaluate your own ideas and contributions.</i></p> <p>ACP: Analysing Critical thinking: <i>The ability to deduct, hypothesise, reason, seek supporting evidence</i></p>	
Half Term			
<ul style="list-style-type: none"> Types Causes of variation From Mendel to modern genetics of reproduction Inheritance in action DNA and family trees 	Justify how Mendel's research is important to the UAE	<p>VAA: Agile Open minded: <i>The ability to take an objective view of different ideas and beliefs; become more receptive to other ideas and beliefs based on the arguments of others; change ideas should there be compelling evidence to do so.</i></p> <p>ACP: Linking Connection finding: <i>The ability to use connections from past experiences to seek possible generalisations</i></p>	Guided reading
<ul style="list-style-type: none"> Inherited conditions in humans More inherited conditions in humans Variation and inheritance end of topic Cloning 	Justify the role of genetic councilors within the UAE.		Guided reading
<ul style="list-style-type: none"> Adult cell cloning Genetic cloning Making choices about genetic technology Theories of evolution 	Justify how the UAE could use cloning technology.		Guided reading
<ul style="list-style-type: none"> Natural selection Isolation and evolution of new species Genetic manipulation and evolution end of topic test 	Suggest how natural selection affected how a camel looks.		Guided reading
<ul style="list-style-type: none"> Adapt and survive Adaptations in plants and animals Competition in plants and animals Adaptations in parasites 	Outline how different organisms are adapted to survive in the UAE.		Guided reading
<ul style="list-style-type: none"> Pyramids of biomass Energy transfers Making food production efficient Decay processes 	Outline how the UAE is helping the oceans.		Guided reading

<ul style="list-style-type: none">• The carbon cycle• Ecology end of topic test	Justify how the UAE can reduce its pollution		Guided reading
Winter Break			