

## Key Stage 4 Curriculum Map 2021 - 2022

### Year 10 GCSE Biology

#### Term 3

Subject: Biology			
Year: 10			
Focus/Topic	UAE Links	HPL Links	Home Learning / Reading
<ul style="list-style-type: none"> <li>• Photosynthesis</li> <li>• Limiting Factors of Photosynthesis</li> <li>• Investigating the rate of photosynthesis</li> </ul>	How might plants native to the UAE be adapted for photosynthesis be different to plants native to the UK?	<b>VAA: Empathetic</b> Collaborative: <i>The ability to seek out opportunities to receive responses to your work; present 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>	Guided reading
<ul style="list-style-type: none"> <li>• Transpiration</li> <li>• Genetics</li> <li>• Reproduction</li> </ul>	Create a leaflet on how plants in the UAE are adapted to avoid water loss.		Guided reading
<ul style="list-style-type: none"> <li>• Inheritance</li> <li>• Genetic Disorders</li> <li>• Cloning</li> </ul>	Research the most common genetic disorders in the UAE		Guided reading
Eid Al Fitr			
<ul style="list-style-type: none"> <li>• Genetic Manipulation</li> <li>• Evolution and survival of the fittest</li> <li>• Darwin's Finches</li> </ul>	Research the laws around cloning in the UAE.	<b>VAA: Agile</b> 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>	Guided reading
<ul style="list-style-type: none"> <li>• Genetic Manipulation and Evolution end of topic test</li> <li>• Energy Transfers within Ecosystems</li> <li>• Pyramids of Biomass</li> </ul>	Compare Darwin's finches to some of the birds found in the UAE		Guided reading
<ul style="list-style-type: none"> <li>• Competition</li> <li>• Adaptations</li> <li>• Population Changes</li> </ul>	Create a food chain for an ecosystem in the UAE		<b>ACP: Linking</b> Guided reading

<ul style="list-style-type: none"> <li>Parasites</li> <li>Energy transfers</li> <li>Ecosystem</li> </ul>	Research the most common parasites found in the UAE and their impact.	<p><b>Connection finding:</b> <i>The ability to use connections from past experiences to seek possible generalisations</i></p> <p><b>ACP: Analysing</b></p> <p><b>Critical thinking:</b> <i>The ability to deduct, hypothesise, reason, seek supporting evidence</i></p>	Guided reading
<ul style="list-style-type: none"> <li>Decay</li> <li>Carbon Cycle</li> <li>Ecosystems end of topic test</li> </ul>	Explain how an increase in carbon dioxide concentration will directly effect the UAE.		Guided reading
<ul style="list-style-type: none"> <li>Global Warming</li> <li>Deforestation</li> </ul>	Create a poster explaining what impact may global warming have on the UAE		Guided reading
<ul style="list-style-type: none"> <li>Land and Water pollution</li> <li>Acid Rain</li> <li>Human Impacts on the Environment end of topic test</li> </ul>	Develop a plan that could be put in place to reduce water pollution in the UAE.		Guided reading
<ul style="list-style-type: none"> <li>End of Term 3 Synoptic Paper</li> <li>Feedback</li> </ul>	Link to UAE values of resilience.		

End of Term 3