

Key Stage 4 Curriculum Map 2021 - 2022

Year 11 GCSE Biology

Term 2

Subject: Biology	Year: 11		
Focus/Topic	UAE Links	HPL Links	Home Learning / Reading
<ul style="list-style-type: none"> Theories of evolution Natural selection Isolation and evolution of new species Genetic manipulation and evolution end of topic test and feedback 	Suggest how natural selection effected how a camel look.	VAA: Empathetic 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> ACP: Analysing Critical thinking: <i>The ability to deduct, hypothesise, reason, seek supporting evidence</i>	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 making food production more energy efficient.		Guided reading
<ul style="list-style-type: none"> The carbon cycle Ecology end of topic test and feedback The effects of the human population explosion Land and water pollution 	Justify how the UAE is reducing it's carbon emissions.		Guided reading
<ul style="list-style-type: none"> Deforestation Global warming Analysing the evidence Human population and pollution end of topic test and feedback 	Outline how the UAE is helping the oceans.		Guided reading

Half Term

MOCKS

MOCKS

Biology required practical 1: Investigate the effect of different concentrations of solutions separated by a semi permeable membrane	Evaluate whether the UAE should utilise reverse osmosis	VAA: Agile <i>Open minded: 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> ACP: Linking <i>Connection finding: The ability to use connections from past experiences to seek possible generalisations</i>	Guided reading
Biology required practical 2: Investigate how variables affect the rate of photosynthesis.	Research how plants are adapted to limit water loss in the UAE.		Guided reading
Biology required practical 4: Investigate the effects of exercise on the human body.	Justify how knowledge of how exercise affects the body could impact the UAE.		Guided reading
Biology required practical 5: Investigate the effect of disinfectants and antibiotics on uncontaminated cultures of microorganisms.	Outline how the UAE reacted to the coronavirus pandemic and what the impacts of this were.		Guided reading

End of term 2