



## Key Stage 5 Curriculum Map 2019 - 2020

### Term 2

Subject: Biology	Year: 13	
Focus/Topic	UAE Links	Home Learning / Reading
• The carbon cycle	Explore the carbon cycle in the UAE	Guided reading
• The greenhouse effect and global warming	How could the UAE reduce it's impact on global warming	
• The nitrogen cycle	Explore the nitrogen cycle in the UAE	
• Epigenetic control of gene expression	How has epigenetic shaped the UAE?	
• Hormones and RNA interference	Why is it important for the UAE to research hormones and RNA interference?	
• Use of natural and artificial fertilisers	How does the UAE use fertilisers to create the miracle garden?	
• Environmental consequences of using nitrogen fertilisers	What effect does the UAE's use of fertilisers impact the environment?	
<b>Mid Term Break</b>		
• Producing DNA fragments	Why is important for the UAE to produce DNA fragments?	Guided reading
• Studying inheritance	Explore what has influenced the genetic variation of the UAE population	
• Monohybrid inheritance	Explore why UAE ancestry can be traced back to Africa	

<ul style="list-style-type: none"> <li>sex inheritance and sex linkage</li> </ul>	Explore why Emirati boys are more likely to be colour blind than Emirati girls	
<ul style="list-style-type: none"> <li>In vitro gene cloning – the polymerase chain reaction</li> </ul>	Why is researching in vitro gene cloning important to the UAE?	
<ul style="list-style-type: none"> <li>In vivo gene cloning – the use of vectors</li> </ul>	<b>Assessment Weeks</b>	Guided reading
<ul style="list-style-type: none"> <li>Co dominance and multiple alleles</li> </ul>		
<b>Spring Break</b>		