

## Key Stage 4 Curriculum Map 2020 - 2021

### Year 10 GCSE Biology

#### Term 1

Subject: Biology	Year: 10	
Focus/Topic	UAE Links	Home Learning / Reading
Induction, curriculum orientation and expectations		
<ul style="list-style-type: none"> <li>• Animal and plant cells</li> <li>• Eukaryotic cells</li> <li>• Specialized cells</li> </ul>	Compare the plant cell of a cactus and an oak tree.	Guided reading
<ul style="list-style-type: none"> <li>• Tissues and organs</li> <li>• Organ system</li> </ul>	Research how desert animal's organ systems are adapted to survive	Guided reading
<ul style="list-style-type: none"> <li>• Cells End of topic test</li> <li>• Diffusion</li> </ul>	Justify why diffusion is faster in the UAE compared with Antarctica	Guided reading
<ul style="list-style-type: none"> <li>• Osmosis</li> <li>• Osmosis required practical</li> </ul>	Evaluate whether the UAE should utilise reverse osmosis	Guided reading
<ul style="list-style-type: none"> <li>• Active transport</li> <li>• Transport into and out of cells End of topic test</li> </ul>	Create a summary about active transport within the UAE.	Guided reading
<ul style="list-style-type: none"> <li>• Cell division, growth and differentiation</li> <li>• Cell division in sexual reproduction</li> </ul>	Evaluate whether the UAE should invest in research into cell division.	Guided reading
<b>Half Term</b>		
<ul style="list-style-type: none"> <li>• Stem cells</li> <li>• Cell growth and cancer</li> </ul>	Evaluate whether the UAE should utilise stem cells and if so, justify what for.	Guided reading
<ul style="list-style-type: none"> <li>• Cell division end of topic test</li> <li>• Exchanging materials</li> </ul>	Justify why we have large insects within the UAE.	Guided reading
<ul style="list-style-type: none"> <li>• Breathing and gas exchange in the lungs</li> <li>• Artificial breathing aids</li> </ul>	Create a summary about respiratory disorders within the UAE	Guided reading

<ul style="list-style-type: none"> <li>• Anaerobic respiration</li> <li>• The effect of exercise on the body required practical</li> </ul>	Design an investigation into how the effect of exercise on the body differs in the UAE when compared to the UK.	Guided reading
<ul style="list-style-type: none"> <li>• Breathing end of topic test</li> <li>• The circulatory system and the heart</li> </ul>	Justify the importance of blood donation within the UAE	Guided reading
<ul style="list-style-type: none"> <li>• Helping the heart</li> <li>• Keeping the blood flowing</li> </ul>	Create a summary about coronary heart disease within the UAE	Guided reading
<ul style="list-style-type: none"> <li>• Transport in the blood</li> <li>• The immune system and blood groups</li> <li>• Circulation end of topic test</li> </ul>	Create a summary about blood disorders within the UAE	Guided reading
Winter Break		