

## Key Stage 3 Curriculum Map 2020-21

### Term 2

Year Group: 7	Subject: BIOLOGY		
Focus/Topic	Objectives	Key Skills/ UAE Links	Home Learning/ Recommended Reading
<ul style="list-style-type: none"> <li>• Eukaryotic Cells</li>   <li>• Observing cells.</li>   <li>• Specialised cells</li> </ul>	<ul style="list-style-type: none"> <li>• Use your knowledge to identify a cell.</li> <li>• Draw and label an animal and plant cell.</li> <li>• Compare animal and plant cells.</li>   <li>• Assemble a microscope slide</li> <li>• Sketch and label your slide</li> <li>• Calculate magnification.</li>   <li>• Interpret a diagram to define a specialised cell.</li> <li>• Draw and label specialised cells</li> <li>• Relate the structure to the function of specialised cells.</li> </ul>	<ul style="list-style-type: none"> <li>• Recall, how science works, application of knowledge and maths</li> <li>• UAE link: How is a cell similar to the Burk Khalifa.</li> </ul>	<ul style="list-style-type: none"> <li>• Guided Reading</li> </ul>
<ul style="list-style-type: none"> <li>• Diffusion Investigation</li>   <li>• Diffusion Analysis</li> </ul> <p>Cells end of topic test and feedback</p>	<ul style="list-style-type: none"> <li>• Define diffusion</li> <li>• Identify variables and construct a scientific table</li> <li>• Collect results from a scientific investigation</li>   <li>• Justify the type of graph for a set of results.</li> <li>• Draw a graph for your results.</li> <li>• Interpret the graph you have drawn.</li> </ul>	<ul style="list-style-type: none"> <li>• Recall, how science works, application of knowledge and maths</li> <li>• UAE link: Why does perfume diffuse faster in the UAE compared to the UK?</li> </ul>	<ul style="list-style-type: none"> <li>• Guided Reading</li> </ul>

<ul style="list-style-type: none"> <li>• Puberty</li> <li>• Fertilisation</li> <li>• Pregnancy</li> </ul>	<ul style="list-style-type: none"> <li>• Use your knowledge to define puberty.</li> <li>• Compare the changes that take place in boys and girls during puberty.</li> <li>• Justify why puberty happens</li> <li>• Use your knowledge to define key terms</li> <li>• Relate the structure of human sex cells to their function.</li> <li>• Outline the process of fertilisation in plants</li> <li>• Use your knowledge to define key terms.</li> <li>• Construct a model of a foetus in a womb</li> <li>• Create a timeline of fetus development</li> </ul>	<ul style="list-style-type: none"> <li>• Recall, how science works, application of knowledge and maths</li> <li>• UAE link: Explore how plants in the UAE are adapted for successful fertilisation.</li> </ul>	<ul style="list-style-type: none"> <li>• Guided Reading</li> </ul>
<ul style="list-style-type: none"> <li>• The Menstrual Cycle</li> </ul> <p>Reproduction end of topic test and feedback</p>	<ul style="list-style-type: none"> <li>• Use your knowledge to define key terms</li> <li>• Outline the process of the menstrual cycle</li> <li>• Create a leaflet about the menstrual cycle</li> </ul>	<ul style="list-style-type: none"> <li>• Recall, how science works, application of knowledge and maths</li> <li>• UAE link: Explore different UAE organisms pregnancies – why are some longer/ shorter than others.</li> </ul>	<ul style="list-style-type: none"> <li>• Guided Reading</li> </ul>
<ul style="list-style-type: none"> <li>• Variation</li> <li>• Variation Investigation</li> <li>• Variation Graphs</li> </ul>	<ul style="list-style-type: none"> <li>• Categorise organisms.</li> <li>• Compare inherited and environmental variation.</li> <li>• Evaluate the study of identical twins for variation.</li> <li>• Use your knowledge to identify variables</li> <li>• Construct a scientific table.</li> <li>• Collect results from a scientific investigation.</li> <li>• Justify the type of graph for a set of results.</li> <li>• Draw a graph for your results.</li> <li>• Interpret the graph you have drawn.</li> </ul>	<ul style="list-style-type: none"> <li>• Recall, how science works, application of knowledge and maths</li> <li>• UAE link: Justify why variation is important in the UAE.</li> </ul>	<ul style="list-style-type: none"> <li>• Guided Reading</li> </ul>

<ul style="list-style-type: none"> <li>Genetics</li> </ul> <p>Variation and inheritance end of topic test</p>	<ul style="list-style-type: none"> <li>Distinguish between DNA, genes and chromosomes</li> <li>Interpret punnet squares</li> <li>Construct punnet squares</li> </ul>	<ul style="list-style-type: none"> <li>Recall, how science works, application of knowledge and maths</li> <li>UAE link: Create genetic diagrams for organisms within the UAE.</li> </ul>	<ul style="list-style-type: none"> <li>Guided Reading</li> </ul>
<b>Half Term</b>			
<ul style="list-style-type: none"> <li>Classification</li> <li>Competition and Adaptation</li> <li>Ecosystems</li> </ul>	<ul style="list-style-type: none"> <li>Distinguish between vertebrates and invertebrates</li> <li>Interpret a classification key</li> <li>Create a classification key</li> <li>Distinguish between the resources animals and plants compete for</li> <li>Relate the adaptation of an organism to it's survival</li> <li>Collect results from a scientific investigation.</li> <li>Define key terms</li> <li>Interpret food chains and food webs</li> <li>Construct a food web</li> </ul>	<ul style="list-style-type: none"> <li>Recall, how science works, application of knowledge and maths</li> <li>UAE link: Create a classification key for organisms within the UAE.</li> </ul>	<ul style="list-style-type: none"> <li>Guided Reading</li> </ul>
<p>Ecology end of topic test and feedback</p>		<ul style="list-style-type: none"> <li>Recall, how science works, application of knowledge and maths</li> <li>UAE link: Relate the adaptation to its function within UAE organisms.</li> </ul>	<ul style="list-style-type: none"> <li>Guided Reading</li> </ul>
<b>Revision</b>			
<b>End of term 2 assessment</b>			
<b>Feedback</b>			
<b>End of term 2</b>			

