

## Key Stage 3 Curriculum Map 2021-22

## Term 2

Focus/Topic	Objectives	Key Skills/ UAE Links	HPL Links	Home Learning/ Recommended Reading
<ul> <li>Eukaryotic Cells</li> <li>Observing cells.</li> </ul>	<ul> <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> </ul>	<ul> <li>Recall, how science works, application of knowledge and mathematics</li> <li>UAE link: How is a cell</li> </ul>	VAA: Empathetic Collaborative: The ability to seek out opportunities to receive responses to your work; present your own	Guided Reading
• Observing cens.	<ul> <li>Compare animal and plant cells.</li> <li>Assemble a microscope slide</li> <li>Sketch and label your slide</li> <li>Calculate magnification.</li> </ul>	similar to the Burk Khalifa.	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	
Specialised cells	<ul> <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>		ideas and contributions.	
<ul> <li>Diffusion Investigation</li> </ul>	<ul> <li>Define diffusion</li> <li>Identify variables and construct a scientific table</li> <li>Collect results from a scientific investigation</li> </ul>	<ul> <li>Recall, application, how science works and mathematics</li> <li>Research and summarise coronary heart disease</li> </ul>	<b>ACP: Analysing</b> <b>Critical thinking:</b> The ability to deduct, hypothesise, reason, seek supporting evidence	• Guided Reading
Diffusion Analysis	<ul> <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>	within the UAE		

Cells practice questions and feedback				
<ul> <li>Puberty</li> <li>Fertilisation</li> </ul>	<ul> <li>Use your knowledge to define puberty.</li> <li>Compare the changes that take place in boys and grils during puberty.</li> <li>Justify why puberty happens</li> <li>Use your knowledge to define key</li> </ul>	<ul> <li>Recall, how science works, application of knowledge and mathematics</li> <li>UAE link: Explore how plants in the UAE are adapted for successful fertilisation.</li> </ul>		Guided Reading
	<ul> <li>Ose 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> </ul>			
• Pregnancy	<ul> <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> <li>The Menstrual Cycle</li> <li>Reproduction practice questions and</li> </ul>	<ul> <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> <li>Recall, how science works, application of knowledge and mathematics</li> <li>UAE link: Explore different UAE organisms pregancies – why are some longer/ shorter than others.</li> </ul>		Guided Reading
feedback Revi	sion of first two biology topics: cells and re	production	-	Guided Reading
		Half term		
Variation	<ul> <li>Categorise organisms.</li> <li>Compare inherited and environmental variation.</li> </ul>	Recall, how science works, application of	VAA: Agile Open minded: The ability to take an objective view of	Guided reading

<ul> <li>Variation Investigation</li> <li>Variation Graphs</li> </ul>	<ul> <li>Evaluate the study of identical twins for variation.</li> <li>Use your knowledge to idenitfy 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> <li>knowledge and mathematics</li> <li>UAE link: Justify why variation is important in the UAE.</li> </ul>	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. <b>ACP: Linking</b> <b>Connection finding:</b> The ability to use connections from past experiences to seek possible generalisations	
<ul> <li>Genetics</li> <li>Variation and inheritance practice questions and feedback</li> </ul>	<ul> <li>Distinguish between DNA, genes and chromosomes</li> <li>Interpret punnet squares</li> <li>Construct punnet squares</li> </ul>	<ul> <li>Recall, how science works, application of knowledge and mathematics</li> <li>UAE link: Create genetic diagrams for organisms within the UAE.</li> </ul>		Guided Reading
<ul> <li>Classification</li> <li>Competition and Adaptation</li> </ul>	<ul> <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 its survival</li> <li>Collect results from a scientific investigation.</li> </ul>	<ul> <li>Recall, how science works, application of knowledge and mathematics</li> <li>UAE link: Create a classification key for organisms within the UAE.</li> </ul>		Guided Reading
Ecosystems	<ul> <li>Define key terms</li> <li>Interpret food chains and food webs</li> <li>Construct a food web</li> </ul>			

<ul> <li>Ecology practice questions and feedback</li> </ul>	<ul> <li>Recall, how science works, application of knowledge and mathematics</li> <li>UAE link: Relate the adaptation to its function within UAE organisms.</li> </ul>	Guided Reading
Revision of all of the biology topics: cells, reproduction, variation and inheritance and ecology		Guided Reading
Synoptic assessment which covers all the topics of biology studied.		Guided Reading
	End of term 2	