

Key Stage 5 Curriculum Map 2021-22

Year 12 AS level Biology

Term 3

Subject: Biology	Year: 12		
Focus/Topic	UAE Links	HPL Links	Home Learning / Reading
<ul style="list-style-type: none"> • Movement of water up stems • Transpiration and factors effecting it • Genetic Diversity • Species Diversity 	Justify why plants in the UAE have few, sunken stomata	VAA: Hardworking Practice <i>the ability to train and prepare through repetition of the same processes in order to become more proficient</i> ACP: Metathinking Self regulation: <i>the ability, to monitor, evaluate and self correct</i>	Guided reading
<ul style="list-style-type: none"> • Species Diversity and Human Activities • Transport of organic substances in phloem and investigating transport in plants • Aphids and plant viruses • Plants end of topic test 	Why is an understanding of plant diseases needed in the UAE?		Guided reading
<ul style="list-style-type: none"> • Meiosis, genetic variation • Classification • Genetic comparison using DNA and proteins 	Explore what has influenced the genetic variation of the UAE population		Guided reading
<ul style="list-style-type: none"> • 3.1.1 Biological Molecules revision • 3.1.5 Gas exchange and the transport of oxygen in living organisms (inc. Required Practical 3) revision • 3.2.10 Cells divide by binary fission and mitosis (inc. Required Practical 4) revision • 3.2.6 The circulation of blood and the structure of the mammalian heart (inc. Required Practical 4) revision 	Summarise how the UAE could prevent the emergence of antibiotic resistant bacteria.		Guided reading
<ul style="list-style-type: none"> • 3.1.6 Living organisms vary revision • 3.1.3 Biochemical reactions in cells are controlled by enzymes revision 	How is UAE ready to treat different types of cancer?		Guided reading

<ul style="list-style-type: none"> • 3.2.8 Mass transport systems in plants (inc. Required Practical 6) revision • 3.2.1 The Causes of Disease: Pathogens, Lifestyle and Genes • 3.2.11 Mutation and Cancer revision 			
23.05.22 A level Biology Unit 1 Drop in sessions			
<ul style="list-style-type: none"> • 3.1.2 Cells and Cell Structure revision • 3.1.4 Transport in and out of Cells revision • 3.2.2 Digestion and Absorption revision • 3.2.3 & 3.2.4 Cholera & HIV as an Example of a Human Disease Caused by a Virus revision • 3.2.5 The Defensive Functions of Mammalian Blood revision 	How could the UAE provide support to countries with high levels of Cholera?	VAA: Hardworking Practice <i>the ability to train and prepare through repetition of the same processes in order to become more proficient</i> ACP: Metathinking Self regulation: <i>the ability, to monitor, evaluate and self correct</i>	Guided reading
<ul style="list-style-type: none"> • 3.1.7 DNA, genes and chromosomes revision • 3.1.8 Protein Synthesis revision • 3.1.9 Genetic Diversity may arise by meiosis revision • 3.1.10 & 3.1.11 Species and Taxonomy & Biodiversity within a Community revision • 3.2.7 Heart Disease may be Associated with Specific Risk Factors revision • 3.2.9 The Role of Aphids in Spreading Plant Viruses revision 	Research heart disease data for the UAE.		Guided reading
09.04.22 A level Biology Unit 2 Drop in sessions			
End of term 3			