Year Grou	p: 12 Subject: Biology	Term: Spring 2021
Торіс		ning points Assessment
Exchange Surfaces and Breathing	<ul> <li>End Point: To understand ventilation and gas exchange s the properties and functions of exchange surfaces in anim <ul> <li>Calculate and compare SA:Vol for different organi</li> <li>Understand the need for specialised exchange su</li> <li>Describe the general features of specialised exchange</li> <li>Describe the mechanism of ventilation in mammal</li> <li>Describe structures and functions of gas exchange</li> </ul> </li> </ul>	isms. Infaces in multicellular organisms. ange surfaces. Is. Students will be formatively assessed during each topic by past paper questions completed in lesson time
Transport in Animals	<ul> <li>waste requires the coordinated activity of the heart and ciries.</li> <li>Recall the need for transport systems in multicellut</li> <li>Describe the structure of blood vessels and how the Describe the composition of tissue fluid, plasma at Describe how tissue fluid and plasma are formed pressure.</li> <li>Describe the external and internal structure of the Know that cardiac output = heart rate x stroke volut</li> <li>Describe how heart contractions is coordinated ar Describe the role of haemoglobin in oxygen.</li> <li>Explain why the oxygen dissociation curve for adu</li> </ul>	<ul> <li>and that controlling the supply of nutrients and removal of reculatory system.</li> <li>Students will complete homework assignments as ongoing assessment of understanding.</li> <li>Teachers will provide students with targeted feedback, based on their test performance.</li> <li>At the end of the term</li> </ul>
Transport in Plants	<ul> <li>End Point: To understand that as plants become larger an supply nutrients to, and remove waste from, individual cell the flow of water through a vascular system, as does the r</li> <li>Describe the structure and function of vascular system. Describe the process of transpiration and understates.</li> <li>Explain how environmental factors can affect transport the mechanism of translocation.</li> <li>Describe how plants have adapted to a range of he Explain how differing morphology or physiology al</li> </ul>	and more complex, transport systems become essential to ils and that the supply of nutrients from the soil relies upon movement of the products of photosynthesis. stems in plants. and the link with gaseous exchange. spiration rate.