



### Overview of Bridging Course

<b>Department:</b> Biology	
<b>What is the focus of this bridging course?</b>	
<ul style="list-style-type: none"> <li>• Students will be introduced to some of the key concepts studied in Year 12 Biology, including biological molecules, cells, exchange and transport of gases and the immune system.</li> <li>• Students will be introduced to some of the key skills needed at A-level Biology.</li> <li>• Students will begin to form links between different areas of the course.</li> <li>• Students will begin to apply their knowledge to tasks/questions related to the A – level examination style to assess students' knowledge and understanding of Biology.</li> </ul>	
<b>w/b 27 April</b>	<b>Cells</b> <ul style="list-style-type: none"> <li>• Students will learn about what the course entails, and the different aspects of A-level Biology.</li> <li>• Students will be given access/log ins to the digital platform Kerboodle which will be used to deliver and help assess the learning in the bridging course</li> <li>• Students will build upon their knowledge of the structure of a cell.</li> <li>• Students will investigate methods of studying a cell.</li> <li>• Students will perform calculations of cell size.</li> <li>• Students will then apply their knowledge to specific tasks designed to strengthen their depth of knowledge and ultimately answer A – level style questions.</li> </ul>
<b>w/b 4 May</b>	<b>Biological Molecules</b> <ul style="list-style-type: none"> <li>• Students will recap their previous knowledge of carbohydrates, lipids, and proteins.</li> <li>• Students will produce structural diagrams of the monomer of each type of molecule.</li> <li>• Students will investigate the structure of proteins in detail.</li> <li>• Students will analyse data on the rate of enzyme catalysed reactions.</li> <li>• Students will then apply their knowledge to specific tasks designed to strengthen their depth of knowledge and ultimately answer A – level style questions.</li> </ul>
<b>w/b 11 May</b>	<b>Circulation</b> <ul style="list-style-type: none"> <li>• Students will investigate the relationship between Surface Area: Volume and the need for a transport system.</li> <li>• Students will build on their knowledge of the human circulatory system.</li> <li>• Students will learn how oxygen is transported by the blood.</li> <li>• Students will plan an investigation into factors affecting heart rate.</li> <li>• Students will then apply their knowledge to specific tasks designed to strengthen their depth of knowledge and ultimately answer A – level style questions.</li> </ul>
<b>w/b 18 May</b>	<b>The Immune System</b> <ul style="list-style-type: none"> <li>• Students will build on their knowledge of the human immune system.</li> <li>• Students will investigate the relationship between antibodies and antigens.</li> <li>• Students will plan an essay linking the areas they have studied.</li> <li>• Students will produce an essay the areas they have studied.</li> </ul>
<i>Work that will students will receive feedback on:</i>	
Students will submit their essay completed in week 4, which will be marked in detail.	
Students will submit their completed A- level questions from week 1 - 3 of the bridging course, and these will be marked in detail.	