

## Biology Triple H Paper 1

### Biology Unit 1 – Cell Biology Higher

Major focus topic area	BBC Bitesize Websites	Video links	Revision guide page numbers (CPG GCSE Biology Higher)
<p>Cell structure (Spec reference 4.1.1)</p> <ul style="list-style-type: none"> <li>• Eukaryotes and prokaryotes</li> <li>• Animal and plant cells</li> <li>• Cell specialisation</li> <li>• Cell differentiation</li> <li>• Microscopy</li>   <li>• Culturing microorganisms</li> </ul>	<p><a href="#">Cell measurement - Cell structure - AQA - GCSE Biology (Single Science) Revision - AQA - BBC Bitesize</a> (Pages 1-12)</p> <p><a href="#">Bacterial growth in cultures - Treating, curing and preventing disease - AQA - GCSE Biology (Single Science) Revision - AQA - BBC Bitesize</a> (Pages 5-8)</p>	<p><a href="https://youtu.be/qHkUOIC8Nbo">https://youtu.be/qHkUOIC8Nbo</a></p> <p><a href="https://youtu.be/Xzy4Ze93G3g">https://youtu.be/Xzy4Ze93G3g</a></p> <p><a href="https://youtu.be/X0GMp8oM_2E">https://youtu.be/X0GMp8oM_2E</a></p> <p><a href="https://youtu.be/PB97svr7Ye8">https://youtu.be/PB97svr7Ye8</a> <a href="https://youtu.be/rJrR8h-DtA">https://youtu.be/rJrR8h-DtA</a></p>	<p>11</p> <p>14</p> <p>12-13</p> <p>17-18</p>

<p><i>Required practical activity 1:</i> use a light microscope to observe, draw and label a selection of plant and animal cells.</p>		<p><i>Required practical activity 1:</i>  <a href="https://youtu.be/jBVxo5T-ZQM">https://youtu.be/jBVxo5T-ZQM</a></p>	
<p>Transport in cells  (Spec reference 4.1.3)</p> <ul style="list-style-type: none"> <li>• Diffusion ( Including exchange surfaces)</li> <li>• Osmosis</li> <li>• Active transport</li> </ul> <p><i>Required practical 3:</i> Investigate the effect of a range of concentrations of salt or sugar solutions on the mass of plant tissue (Osmosis practical)</p>	<p><a href="#">Diffusion - Transport in cells - AQA - GCSE Biology (Single Science) Revision - AQA - BBC Bitesize</a> (Pages 1-9)</p> <p><a href="#">The need for exchange surfaces - Animal organisation - gaseous exchange systems - AQA - GCSE Biology (Single Science) Revision - AQA - BBC Bitesize</a>  Exchange surfaces related to diffusion</p>	<p><a href="https://youtu.be/lxHMJaXOzP4">https://youtu.be/lxHMJaXOzP4</a></p> <p><a href="https://youtu.be/dVNr8lwaGqQ">https://youtu.be/dVNr8lwaGqQ</a></p> <p><a href="https://youtu.be/vCJVXymXkzM">https://youtu.be/vCJVXymXkzM</a></p> <p><a href="https://youtu.be/tM0bGaaQ2jY">https://youtu.be/tM0bGaaQ2jY</a></p> <p><i>Required practical 3:</i>  <a href="https://youtu.be/ef2Ts2AKhq8">https://youtu.be/ef2Ts2AKhq8</a></p>	<p>20</p> <p>23-25</p> <p>21</p> <p>22</p>

## Biology Unit 2 – Organisation Higher

Major focus topic area	BBC Bitesize Websites	Video links	Revision guide page numbers
------------------------	-----------------------	-------------	-----------------------------

<p>Animal tissues, organs and organ systems (Spec reference 4.2.2)</p> <ul style="list-style-type: none"> <li>The human digestive system</li> <li>The heart and blood vessels (including lungs)</li> <li>Coronary heart disease: a non-communicable disease</li> <li>Health issues</li> <li>The effect of lifestyle on some non-communicable disease</li> </ul>	<p><a href="#">Molecules of life - Animal organisation - digestion - AQA - GCSE Biology (Single Science) Revision - AQA - BBC Bitesize</a> (Pages 1-8)</p> <p><a href="https://www.bbc.co.uk/bitesize/guides/zyptv9q/revision/1">https://www.bbc.co.uk/bitesize/guides/zyptv9q/revision/1</a></p> <p><a href="#">The circulatory system - Animal organisation - transport systems - AQA - GCSE Biology (Single Science) Revision - AQA - BBC Bitesize</a> (Pages 1-5) <b>Not page 6 and 7</b></p> <p><a href="#">Development of cardiovascular disease - Animal organisation - transport systems - AQA - GCSE Biology (Single Science) Revision - AQA - BBC Bitesize</a> (Pages 8-12)</p> <p><a href="#">Different types of disease - Non-communicable diseases - AQA - GCSE Biology (Single Science) Revision - AQA - BBC Bitesize</a> (Pages 1-11) <b>Not page 2</b></p>	<p><a href="https://youtu.be/gUncqL1ul8Q">https://youtu.be/gUncqL1ul8Q</a> <a href="https://youtu.be/qq1foXnvJao">https://youtu.be/qq1foXnvJao</a> <a href="https://youtu.be/6jz9WvfKDvc">https://youtu.be/6jz9WvfKDvc</a> <a href="https://youtu.be/vMI46qGQMDw">https://youtu.be/vMI46qGQMDw</a></p> <p><a href="https://youtu.be/B44n2SMLv-s">https://youtu.be/B44n2SMLv-s</a> <a href="https://youtu.be/zU90AkcTJEs">https://youtu.be/zU90AkcTJEs</a> <a href="https://youtu.be/AISQEs694qY">https://youtu.be/AISQEs694qY</a></p> <p><a href="https://youtu.be/UN5BIPfMUkg">https://youtu.be/UN5BIPfMUkg</a> <a href="https://youtu.be/thAyrNpD77A">https://youtu.be/thAyrNpD77A</a> <a href="https://youtu.be/iy-47a68P60">https://youtu.be/iy-47a68P60</a></p>	<p>28-32</p> <p>33-35 <b>NOT 36</b></p> <p>37-38</p> <p>39</p> <p>40 <b>NOT 41</b></p>
---	--	--	--

<p><i>Required practical activity 4:</i> use qualitative reagents to test for a range of carbohydrates, lipids and proteins. To include Benedict's test for sugars, iodine test for starch; and Biuret reagent for protein</p> <p><b>YOU WILL NOT BE ASSESSED ON</b></p> <ul style="list-style-type: none"> <li>• <b>BLOOD (Spec ref 4.2.2.3)</b></li> <li>• <b>CANCER (Spec ref 4.2.2.7)</b></li> </ul>		<p><i>Required practical activity 4:</i></p> <p><a href="https://youtu.be/13H1urX3gxl">https://youtu.be/13H1urX3gxl</a></p> <p><a href="https://youtu.be/SqWTJWOBww4">https://youtu.be/SqWTJWOBww4</a></p>	<p>32</p>
<p>Plant tissues, organs and systems (Spec reference 4.2.3)</p> <ul style="list-style-type: none"> <li>• Plant tissues</li> <li>• Plant organ system (including transpiration and translocation)</li> </ul>	<p><a href="#">Plant organisation - Plant organisation - AQA - GCSE Biology (Single Science) Revision - AQA - BBC Bitesize (Pages 1-10)</a></p>	<p><a href="https://youtu.be/oT4jvKRYBjA">https://youtu.be/oT4jvKRYBjA</a></p> <p><a href="https://youtu.be/9FTafxnbwHQ">https://youtu.be/9FTafxnbwHQ</a></p>	<p>42-44</p>

## Biology Unit 3 – Infection and Response Higher

Major focus topic area	BBC Bitesize Websites	Video links	Revision guide page numbers
<p>Communicable diseases</p> <p>(Spec reference 4.3.1)</p> <ul style="list-style-type: none"> <li>• Communicable (infectious diseases)</li> <li>• Viral diseases</li> <li>• Bacterial diseases</li> <li>• Fungal disease</li> <li>• Protist diseases</li> <li>• Human defence systems</li> <li>• Vaccination</li> </ul> <p><b>YOU WILL NOT BE ASSESSED ON</b></p> <ul style="list-style-type: none"> <li>• <b>ANTIBIOTICS AND PAINKILLERS (Spec ref 4.3.1.8)</b></li> <li>• <b>DISCOVERY AND DEVELOPMENT OF DRUGS (Spec ref 4.3.1.9)</b></li> </ul>	<p><a href="#">Pathogens - Communicable diseases - AQA - GCSE Biology (Single Science) Revision - AQA - BBC Bitesize (Pages 1-9)</a></p> <p><a href="#">Vaccinations - Treating, curing and preventing disease - AQA - GCSE Biology (Single Science) Revision - AQA - BBC Bitesize (Only pages 1+2) NOT PAGES 3-10</a></p>	<p><a href="https://youtu.be/dbd5iydu3EY">https://youtu.be/dbd5iydu3EY</a></p> <p><a href="https://youtu.be/m0o8mhu9Arg">https://youtu.be/m0o8mhu9Arg</a></p> <p><a href="https://youtu.be/Z5c8IVXDiqc">https://youtu.be/Z5c8IVXDiqc</a></p> <p><a href="https://youtu.be/2Fh-2wpvhHQ">https://youtu.be/2Fh-2wpvhHQ</a></p> <p><a href="https://youtu.be/63XExOKWrqg">https://youtu.be/63XExOKWrqg</a></p> <p><a href="https://youtu.be/23fQscOSqVU">https://youtu.be/23fQscOSqVU</a></p>	<p>46</p> <p>47</p> <p>48</p> <p>47</p> <p>47</p> <p>49</p> <p>50</p>

Monoclonal antibodies (Spec reference 4.3.2) <ul style="list-style-type: none"> <li>Producing monoclonal antibodies</li> <li>Uses of monoclonal antibodies</li> </ul>	<a href="#">Production of monoclonal antibodies - Higher Tier - Monoclonal antibodies - Higher - AQA - GCSE Biology (Single Science) Revision - AQA - BBC Bitesize (Pages 1-3)</a>	<a href="https://youtu.be/XrUW54Ea598">https://youtu.be/XrUW54Ea598</a>  <a href="https://youtu.be/umRe7GBJ5GE">https://youtu.be/umRe7GBJ5GE</a>	53  54

### Biology Unit 4 –Bioenergetics Higher

There are no major focus topics in this unit.

#### **YOU WILL NOT BE ASSESSED ON**

- Response to exercise (Spec ref 4.4.2.2)**