

# Revision for Biology: Paper 1 (2022)

For knowledge organisers – see JSTC website: <https://www.jstc.org.uk/science>

Topic title	Brief content overview	Required practical	External Links
<b>B2 Cell division</b>	<ul style="list-style-type: none"> <li>• Cell division</li> <li>• Growth and differentiation</li> <li>• Stem cells</li> <li>• Stem cell dilemmas</li> </ul>		<p>FreeSciencelessons on YouTube: Biology paper 1 Cells playlist</p> <p><a href="https://www.youtube.com/watch?v=HBZcpzr5B2g&amp;list=PL9IouNCPbCxVU74eQtCcqbaQdYmwzAnlC">https://www.youtube.com/watch?v=HBZcpzr5B2g&amp;list=PL9IouNCPbCxVU74eQtCcqbaQdYmwzAnlC</a></p> <p>BBC Bitesize</p> <p><a href="https://www.bbc.co.uk/bitesize/topics/z2s8v9g">https://www.bbc.co.uk/bitesize/topics/z2s8v9g</a></p>
<b>B3 Organisation and the digestive system</b>	<ul style="list-style-type: none"> <li>• Tissues and organs</li> <li>• The human digestive system</li> <li>• The chemistry of food</li> <li>• Catalysts and enzymes</li> <li>• Factors affecting enzyme action</li> <li>• How the digestive system works</li> <li>• Making digestion efficient</li> </ul>	<p>Use standard food tests to identify food groups.</p> <p>Investigate the effect of pH on the rate of reaction of amylase enzyme.</p>	<p>FreeSciencelessons on YouTube: Biology paper 1 organisation playlist</p> <p><a href="https://www.youtube.com/watch?v=4ui4oSHHzA&amp;list=PL9IouNCPbCxXGDt3ATU1xM_X_F8JghPCB">https://www.youtube.com/watch?v=4ui4oSHHzA&amp;list=PL9IouNCPbCxXGDt3ATU1xM_X_F8JghPCB</a></p> <p>BBC Bitesize</p> <p><a href="https://www.bbc.co.uk/bitesize/topics/zwtcng8">https://www.bbc.co.uk/bitesize/topics/zwtcng8</a></p>
<b>B4 Organising animals and plants</b>	<ul style="list-style-type: none"> <li>• The blood</li> <li>• The blood vessels</li> <li>• The heart</li> <li>• Helping the heart</li> <li>• Breathing and gas exchange</li> <li>• Tissues and organs in plants</li> <li>• Transport systems in plants</li> </ul>		<p>FreeSciencelessons on YouTube: Biology paper 1 organisation playlist</p> <p><a href="https://www.youtube.com/watch?v=4ui4oSHHzA&amp;list=PL9IouNCPbCxXGDt3ATU1xM_X_F8JghPCB">https://www.youtube.com/watch?v=4ui4oSHHzA&amp;list=PL9IouNCPbCxXGDt3ATU1xM_X_F8JghPCB</a></p> <p>BBC Bitesize</p> <p><a href="https://www.bbc.co.uk/bitesize/topics/zwtcng8">https://www.bbc.co.uk/bitesize/topics/zwtcng8</a></p>

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	<ul style="list-style-type: none"> <li>• Factors affecting transpiration</li> </ul>		
<b>B5 Communicable diseases</b>  <b>FOUNDATION ONLY</b>	<ul style="list-style-type: none"> <li>• Health and disease</li> <li>• Pathogens and diseases</li> <li>• Preventing infections</li> <li>• Viral diseases</li> <li>• Bacterial diseases</li> <li>• Diseases caused by fungi and protists</li> <li>• Human defence</li> <li>• Responses</li> </ul>	Investigating the effect of antiseptics or antibiotics on bacterial growth.	FreeSciencelessons on YouTube: Biology paper 1 infectious diseases playlist <a href="https://www.youtube.com/watch?v=QYWNXp36O48&amp;list=PL9louNCPbCxVQPNggka5bSs-IWe3L6OD8">https://www.youtube.com/watch?v=QYWNXp36O48&amp;list=PL9louNCPbCxVQPNggka5bSs-IWe3L6OD8</a>  BBC Bitesize <a href="https://www.bbc.co.uk/bitesize/topics/z9236yc">https://www.bbc.co.uk/bitesize/topics/z9236yc</a>
<b>B8 Photosynthesis</b>	<ul style="list-style-type: none"> <li>• Photosynthesis</li> <li>• The rate of photosynthesis</li> <li>• How plants use glucose</li> <li>• Making the most of photosynthesis</li> </ul>	Investigate the effect of light intensity on the rate of photosynthesis	FreeSciencelessons on YouTube: Biology paper 1 <a href="https://www.youtube.com/watch?v=rAJGnS_ktk4">https://www.youtube.com/watch?v=rAJGnS_ktk4</a>  BBC Bitesize <a href="https://www.bbc.co.uk/bitesize/topics/zgws7p3">https://www.bbc.co.uk/bitesize/topics/zgws7p3</a>
<b>Required Practical</b>			FreeSciencelessons on YouTube: Biology paper 1 Required practical play list <a href="https://www.youtube.com/watch?v=jBVxo5T-ZQM&amp;list=PL9louNCPbCxU6sNg_x5rvlsLwA6gNCVzi">https://www.youtube.com/watch?v=jBVxo5T-ZQM&amp;list=PL9louNCPbCxU6sNg_x5rvlsLwA6gNCVzi</a>