

# Revision for Biology: Paper 2 (2022)

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

| Topic title   | Brief content overview   | Required practical | External Links  |
|---|--|--------------------|---|
| B11 Hormonal coordination   | <ul style="list-style-type: none"> <li>Principles of hormonal control</li> <li>The control of blood glucose levels</li> <li>Treating diabetes</li> <li>The role of negative feedback</li> <li>Human reproduction</li> <li>Hormones and the menstrual cycle</li> <li>The artificial control of fertility</li> <li>Infertility treatments</li> </ul> |                    | FreeSciencelessons on YouTube : Biology paper 2 Homeostasis playlist<br><a href="https://www.youtube.com/watch?v=S45_3wWL-Xk&amp;list=PL9IouNCPbCxW3lptxS1yHCP2I9YDfM2co">https://www.youtube.com/watch?v=S45_3wWL-Xk&amp;list=PL9IouNCPbCxW3lptxS1yHCP2I9YDfM2co</a><br><br>BBC Bitesize<br><a href="https://www.bbc.co.uk/bitesize/topics/zy468mn">https://www.bbc.co.uk/bitesize/topics/zy468mn</a>            |
| B12 Reproduction<br><br><b>Foundation Only</b>                                  | <ul style="list-style-type: none"> <li>Types of reproduction</li> <li>Cell division in sexual reproduction</li> <li>DNA and the genome</li> <li>Inheritance in action</li> <li>More about genetics</li> <li>Inherited disorders</li> <li>Screening for genetic disorders</li> </ul>  |                    | FreeSciencelessons on YouTube: Biology paper 2 Inheritance playlist<br><a href="https://www.youtube.com/watch?v=Fh9b6a-3DLQ&amp;list=PL9IouNCPbCxWt28Bifo2jK9xn-ym956sf">https://www.youtube.com/watch?v=Fh9b6a-3DLQ&amp;list=PL9IouNCPbCxWt28Bifo2jK9xn-ym956sf</a><br><br>BBC Bitesize<br><a href="https://www.bbc.co.uk/bitesize/topics/zpb7cj6">https://www.bbc.co.uk/bitesize/topics/zpb7cj6</a>             |
| B15 Adaptations, interdependence, and competition<br><br><b>Foundation Only</b> | <ul style="list-style-type: none"> <li>The importance of communities Organisms in their environment</li> <li>Distribution and abundance</li> <li>Competition in animals</li> </ul>   |                    | FreeSciencelessons on YouTube: Biology paper 2 Variation and evolution playlist<br><a href="https://www.youtube.com/watch?v=_LoPYfhTgeI&amp;list=PL9IouNCPbCxXqJycGYKJhk2PMKICNBBZ8">https://www.youtube.com/watch?v=_LoPYfhTgeI&amp;list=PL9IouNCPbCxXqJycGYKJhk2PMKICNBBZ8</a><br><br>BBC Bitesize<br><a href="https://www.bbc.co.uk/bitesize/topics/zxfd3k7">https://www.bbc.co.uk/bitesize/topics/zxfd3k7</a> |

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|   | <ul style="list-style-type: none"> <li>• Competition in plants</li> <li>• Adapt and survive</li> <li>• Adaptation in animals</li> <li>• Adaptations in plants</li> </ul>  |  |  |
| B16 Organising an ecosystem                               | <ul style="list-style-type: none"> <li>• Feeding relationships</li> <li>• Materials cycling</li> <li>• The carbon cycle</li> </ul>  |  | <p>FreeSciencelessons on YouTube: Biology paper 2 Ecology playlist<br/> <a href="https://www.youtube.com/watch?v=ePsjedKoSA9g&amp;list=PL9IouNCPbCxVuf3dVlq6kHQ0b27Hu-fgW">https://www.youtube.com/watch?v=ePsjedKoSA9g&amp;list=PL9IouNCPbCxVuf3dVlq6kHQ0b27Hu-fgW</a></p> <p>BBC Bitesize<br/> <a href="https://www.bbc.co.uk/bitesize/topics/zxfd3k7">https://www.bbc.co.uk/bitesize/topics/zxfd3k7</a></p> |
| B17 Biodiversity and ecosystems<br><br><b>Higher Only</b> | <ul style="list-style-type: none"> <li>• The human population explosion</li> <li>• Land and water pollution</li> <li>• Air pollution</li> <li>• Deforestation and peat destruction</li> <li>• Global warming</li> <li>• Maintaing biodiversity</li> </ul> |  | <p>FreeSciencelessons on YouTube: Biology paper 2 Ecology playlist<br/> <a href="https://www.youtube.com/watch?v=ePsjedKoSA9g&amp;list=PL9IouNCPbCxVuf3dVlq6kHQ0b27Hu-fgW">https://www.youtube.com/watch?v=ePsjedKoSA9g&amp;list=PL9IouNCPbCxVuf3dVlq6kHQ0b27Hu-fgW</a></p> <p>BBC Bitesize<br/> <a href="https://www.bbc.co.uk/bitesize/topics/zxfd3k7">https://www.bbc.co.uk/bitesize/topics/zxfd3k7</a></p> |
| Required Practical  |   |  | <p>BBC Bitesize practical skills<br/> <a href="https://www.bbc.co.uk/bitesize/topics/zqh4srd">https://www.bbc.co.uk/bitesize/topics/zqh4srd</a></p>  |