Edexcel International GCSE Biology 4BI1 Learning Plan

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| **Unit: 4. Ecology and the Environment** | | **Chapter: 15. Human Influences on the Environment** | | **Hours: 7** |
| Content coverage | Learning outcomes | Resources | Assessment | |
| **Section 4: Ecology and the environment**  **d)** Human influences on the environment  **Section 5: Use of biological resources**  **a)** Food production | **4.12** understand the biological consequences of pollution of air by sulfur dioxide and  carbon monoxide  **4.13** understand that water vapour, carbon dioxide, nitrous oxide, methane and CFCs are  greenhouse gases  **4.14** understand how human activities contribute to greenhouse gases  **4.15** understand how an increase in greenhouse gases results in an enhanced greenhouse effect and that this may lead to global warming and its consequences  **4.18B understand the effects of deforestation, including leaching, soil erosion, disturbance of evapotranspiration and the carbon cycle, and the balance of**  **atmospheric gases.**  **4.16** understand the biological consequences of pollution of water by sewage  **4.17** understand the biological consequences of eutrophication caused by leached minerals  from fertiliser.  **5.1** describe how glasshouses and polythene tunnels can be used to increase the yield of certain crops  **5.2** understand the effects on crop yield of increased carbon dioxide and increased temperature in glasshouses  **5.3** understand how the use of fertiliser can increase crop yield  **5.4** understand the reasons for pest control and the advantages and disadvantages of using pesticides and biological control with crop plants  ***Fish farming***  **5.9B understand the methods used to farm large numbers of fish to provide a source of protein, including maintaining water quality, controlling intraspecific and interspecific predation, controlling disease, removing waste products, controlling the quality and frequency of feeding, and selective breeding** | Video: Biology Section 4 – Lesson 4 – The Effects of Human Activity on the Environment  Powerpoint: Biology Section 4 – Lesson 4  Textbook pages:  206 – Modern agriculture – producing the food we need  211 – Air pollution  216 – Water pollution | Page 218 – 220 Qs. 1 to 10  Unit Questions. Pages 221 – 225 Qs. 1 to 7  Textbook Answers (PDF)  Chapter 15 - exam question - pdf  Chapter 15 - exam question mark scheme – pdf  Chapter 15 - Talking paper video | |

Videos – [www.igcsesciencecourses.com](http://www.igcsesciencecourses.com)

Textbook Ref: Edexcel International GCSE (9-1) Biology Student Book - Pearson (Bradfield and Potter)