Edexcel iGCSE Biology 4BI0 Learning Plan

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| **Section E19: Natural Selection and Evolution** | | |
| Specification | Resources | Assessment |
| 3.29 understand that mutation is a rare, random change in genetic material that can be inherited  3.30 describe the process of evolution by means of natural selection  3.31 understand that many mutations are harmful but some are neutral and a few are beneficial  3.32 understand that resistance to antibiotics can increase in bacterial populations, and appreciate how such an increase can lead to infections being difficult to control  3.33 understand that the incidence of mutations can be increased by exposure to ionising radiation (for example gamma rays, X-rays and ultraviolet rays) and some chemical mutagens (for example chemicals in tobacco). | Video: Biology – Section 3 – Lesson 5 – Natural Selection and Evolution  Powerpoint: Biology - Section 3 – Lesson 5  Textbook: Ch.19 - page 208 to 217  Page 208 – The work of Charles Darwin  Page 210 - Evidence for natural selection  Page 215 – Natural selection and the formation of new species  Page 215 – The course of evolution  Chapter 19 – Natural Selection and Evolution - Student checklist.doc  DVD Revision check list | Textbook  Page 217 – Questions 1 to 5  Textbook Answers (PDF)  DVD Multiple choice test  Section E19 - exam question - pdf  Section E19 - exam question mark scheme – pdf  Talking paper video – Section E19 – Natural Selection and Evolution |

Videos – www.igcsesciencecourses.com

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

DVD Video Clips – see resource DVD in textbook.