Edexcel International GCSE Biology 4BI1 Learning Plan

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| **Unit: 5. Variation and Selection** | | **Chapter: 17. Cell Division** | | **Hours: 2** |
| Content coverage | Learning outcomes | Resources | Assessment | |
| **Section 3: Reproduction and inheritance**  **b)** Inheritance | **3.28** understand how division of a diploid cell by mitosis produces two cells that contain  identical sets of chromosomes  **3.29** understand that mitosis occurs during growth, repair, cloning and asexual reproduction  **3.30** understand how division of a cell by meiosis produces four cells, each with half the number of chromosomes, and that this results in the formation of genetically different haploid gametes  **3.31** understand how random fertilisation produces genetic variation of offspring  **3.32** know that in human cells the diploid number of chromosomes is 46 and the haploid number is 23.  **3.33** understand that variation within a species can be genetic, environmental, or a  combination of both | Video: Biology Section 3 – Lesson 4 – Genetics and Inheritance (Part 2) – 06:10 to end.  Powerpoint: Biology Section 3 – Lesson 4 – slides 22 to end.  Textbook pages:  240 – Mitosis  242 – Meiosis  244 – Sexual reproduction and variation  245 – Asexual reproduction and cloning  245 – Genes and environment both produce variation | Page 247 – 248 Qs.1 - 10  Textbook Answers (PDF)  Chapter 17 - exam question - pdf  Chapter 17 - exam question mark scheme – pdf  Chapter 17 - 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)