Edexcel iGCSE Biology 4BI0 Learning Plan

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| **Section E17: Cell Division** | | |
| Specification | Resources | Assessment |
| 3.23 understand that division of a diploid cell by mitosis produces two cells which contain identical sets of chromosomes 3.24 understand that mitosis occurs during growth, repair, cloning and asexual reproduction  3.25 understand that 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  3.26 understand that random fertilisation produces genetic variation of offspring 3.27 know that in human cells the diploid number of chromosomes is 46 and the haploid number is 23  3.28 understand that variation within a species can be genetic, environmental, or a combination of both 3 | 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: Ch.17 - page 190 to 196  Page 190 – Mitosis  Page 192 - Meiosis  Page 193 - Sexual Reproduction and Variation  Page 193 – Asexual reproduction and cloning  Page 194 - Genes and environment both produce variation  Page 195 – End of Chapter Checklist  Chapter 17 – Genes and Inheritance - Student checklist.doc  DVD Revision check list  <http://biology-igcse.weebly.com/mitosis-and-meiosis.html> | Textbook  Page 195 to 196 – Questions 1 to 6  Textbook Answers (PDF)  DVD Multiple choice test  Section E17 - exam question - pdf  Section E17 - exam question mark scheme – pdf  Talking paper video – Section E17 – Cell Division |

Videos – www.igcsesciencecourses.com

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

DVD Video Clips – see resource DVD in textbook.