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 196Page 190 – MitosisPage 192 - MeiosisPage 193 - Sexual Reproduction and VariationPage 193 – Asexual reproduction and cloningPage 194 - Genes and environment both produce variationPage 195 – End of Chapter ChecklistChapter 17 – Genes and Inheritance - Student checklist.docDVD Revision check list<http://biology-igcse.weebly.com/mitosis-and-meiosis.html> | TextbookPage 195 to 196 – Questions 1 to 6Textbook Answers (PDF)DVD Multiple choice testSection E17 - exam question - pdfSection E17 - exam question mark scheme – pdfTalking 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.