Edexcel iGCSE Biology 4BI0 Learning Plan

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| **Section E18: Genes and Inheritance** |
| Specification | Resources | Assessment |
| 3.16 understand that genes exist in alternative forms called alleles which give rise to differences in inherited characteristics 3.17 understand the meaning of the terms: dominant, recessive, homozygous, heterozygous, phenotype, genotype and codominance 3.18 describe patterns of monohybrid inheritance using a genetic diagram 3.19 understand how to interpret family pedigrees 3.20 predict probabilities of outcomes from monohybrid crosses3.21 understand that the sex of a person is controlled by one pair of chromosomes, XX in a female and XY in a male 3.22 describe the determination of the sex of offspring at fertilisation, using a genetic diagram | Video: Biology – Section 3 – Lesson 3 – Genetics and Inheritance (Part 1) – 06:28 to end. Biology – Section 3 – Lesson 4 – Genetics and Inheritance (Part 2) – beginning to 06:10Powerpoint: Biology Section 3 – Lesson 3 – slides 26 to end. Biology Section 3 – Lesson 4 – beginning to slide 21Textbook: Ch.18 - page 197 to 207Page 197 – Gregor MendelPage 201 – Working out genotypes – the test crossPage 202 – Ways of presenting genetic informationPage 205 – Sex determinationPage 206 – End of Chapter ChecklistChapter 18 – Genes and Inheritance - Student checklist.docDVD Revision check list<http://biology-igcse.weebly.com/monohybrid-cross.html><http://biology-igcse.weebly.com/-codominance.html> | TextbookPage 206 to 207 – Questions 1 to 6Textbook Answers (PDF)DVD Multiple choice testSection E18 - exam question - pdfSection E18 - exam question mark scheme – pdfTalking paper video – Section E18 – Genes and inheritance |

Videos – www.igcsesciencecourses.com

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

DVD Video Clips – see resource DVD in textbook.