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 crosses  3.21 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 06:10  Powerpoint: Biology Section 3 – Lesson 3 – slides 26 to end. Biology Section 3 – Lesson 4 – beginning to slide 21  Textbook: Ch.18 - page 197 to 207  Page 197 – Gregor Mendel  Page 201 – Working out genotypes – the test cross  Page 202 – Ways of presenting genetic information  Page 205 – Sex determination  Page 206 – End of Chapter Checklist  Chapter 18 – Genes and Inheritance - Student checklist.doc  DVD Revision check list  <http://biology-igcse.weebly.com/monohybrid-cross.html>  <http://biology-igcse.weebly.com/-codominance.html> | Textbook  Page 206 to 207 – Questions 1 to 6  Textbook Answers (PDF)  DVD Multiple choice test  Section E18 - exam question - pdf  Section E18 - exam question mark scheme – pdf  Talking 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.