Edexcel iGCSE Biology 4BI0 Learning Plan

|  |  |  |
| --- | --- | --- |
| **Section E20: Selective Breeding** | | |
| Specification | Resources | Assessment |
| 5.10 understand that plants with desired characteristics can be developed by selective breeding  5.11 understand that animals with desired characteristics can be developed by selective breeding.  5.17 describe the process of micropropagation (tissue culture) in which small pieces of plants (explants) are grown in vitro using nutrient media  5.18 understand how micropropagation can be used to produce commercial quantities of identical plants (clones) with desirable characteristics  5.19 describe the stages in the production of cloned mammals involving the introduction of a diploid nucleus from a mature cell into an enucleated egg cell, illustrated by Dolly the sheep  5.20 evaluate the potential for using cloned transgenic animals, for example to produce commercial quantities of human antibodies or organs for transplantation. | Video: Section 5 – Lesson 2 – Selective breeding and genetic engineering – beginning to 07.05 Section 5 – Lesson 3 – Cloning – beginning to 08.25  Powerpoint: Section 5 – Lesson 2 – beginning to slide 17. Section 5 – Lesson 3 – beginning to slide 37.  Textbook: Chapter 20 – Selective breeding  Page 218 – Traditional selective breeding  Page 221 – Modern selective breeding  Page 223 – Cloning animals  Chapter 20 – Selective Breeding - Student checklist.doc  DVD Revision check list  <http://biology-igcse.weebly.com/selection.html> | Textbook  Page 225 – Questions (1) to (5)  Chapter 20 - Textbook Answers (PDF)  Pages 226 – 227 End of Section E Questions  End of Section E Questions – mark scheme (PDF)  DVD Multiple choice test  Section E20 - exam question - pdf  Section E20 - exam question mark scheme – pdf  Talking paper video – Section E20 – Selective Breeding |

Videos – www.igcsesciencecourses.com

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

DVD Video Clips – see resource DVD in textbook.