Edexcel International GCSE Biology 4BI1 Learning Plan

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| **Unit: 5. Variation and Selection** | | **Chapter: 20. Selective Breeding** | | **Hours: 3** |
| Content coverage | Learning outcomes | Resources | Assessment | |
| **Section 5: Use of biological resources**  **b)** Selective breeding | **5.10** understand how selective breeding can develop plants with desired characteristics  **5.11** understand how selective breeding can develop animals with desired characteristics.  **5.17B describe the process of micropropagation (tissue culture) in which explants are grown *in vitro***  **5.18B understand how micropropagation can be used to produce commercial quantities of genetically identical plants with desirable characteristics**  **5.19B 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**  **5.20B understand how cloned transgenic animals can be used to produce human Proteins.** | 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 pages:  269 – Traditional selective breeding  271 – Modern selective breeding  273 – Cloning animals | Page 274 – 276 Qs. 1 to 9  Unit Questions. Pages 277 – 279 Qs. 1 to 7  Textbook Answers (PDF)  Chapter 20 - exam question - pdf  Chapter 20 - exam question mark scheme – pdf  Chapter 20 - Talking paper video | |

Videos – [www.igcsesciencecourses.com](http://www.igcsesciencecourses.com)

Textbook Ref: Edexcel International GCSE (9-1) Biology Student Book - Pearson (Bradfield and Potter)