Edexcel iGCSE Biology 4BI0 Learning Plan

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| **Section F21: Using Microorganisms** |
| Specification | Resources | Assessment |
| 5.5 understand the role of yeast in the production of beer 5.6 describe a simple experiment to investigate carbon dioxide production by yeast, in different conditions **5.7 understand the role of bacteria (Lactobacillus) in the production of yoghurt** **5.8 interpret and label a diagram of an industrial fermenter and explain the need to provide suitable conditions in the fermenter, including aseptic precautions, nutrients, optimum temperature and pH, oxygenation and agitation, for the growth of micro-organisms** | Video: Biology Section 5 – Lesson 1 – Population Growth and Food Production – 12.25 to 18.38Powerpoint: Biology Section 5 – Lesson 1 – Slides 43 to 77Textbook: Ch.21 Using MicroorganismsPage 228 – What are microorganisms?Page 229 – Fermentation and BiotechnologyPage 231 – ‘Traditional’ biotechnologyPage 234 – End of Chapter ChecklistChapter 21 – using Microorganisms - Student checklist.docDVD Revision check list<http://biology-igcse.weebly.com/use-of-microorganisms-and-fermenter-to-manufacture-enzymes.html><http://biology-igcse.weebly.com/use-of-microorganisms-to-manufacture-antibiotic-penicillin.html>  | TextbookPage 234 – Questions (1) to (3)Textbook Answers (PDF)DVD Multiple choice testSection F21 - exam question - pdfSection F21 - exam question mark scheme – pdfTalking paper video – Section F21 – Using Microorganisms |

Videos – www.igcsesciencecourses.com

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

DVD Video Clips – see resource DVD in textbook.