Edexcel iGCSE Physics 4PH0 Learning Plan

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| **Section G25: Applications of Radioactivity** | | |
| Specification | Resources | Assessment |
| 7.13 describe the uses of radioactivity in medical and non-medical tracers, in radiotherapy, and in the radioactive dating of archaeological specimens and rocks  7.14 describe the dangers of ionising radiations, including:   radiation can cause mutations in living organisms   radiation can damage cells and tissue  the problems arising in the disposal of radioactive waste  and describe how the associated risks can be reduced. | Video: Section 4 – Atomic Physics – Lesson 2 – Radioactivity – 10:12 to end. Section 4 – Atomic Physics – Lesson 3 – Radioactive decay – 17:24 to end.  Powerpoint: Physics 23 – Radioactivity – slides 25 to end. Physics 24 – Radioactive decay – slides 41 to end.  Textbook: Ch.25 – Applications of Radioactivity  Page 216 – The use of radioactivity in medicine.  Page 218 – The use of radioactivity in industry  Page 219 – Radioactive dating  Page 222 – The health hazards of ionising radiation  Page 224 – End of Chapter Checklist  Edexcel iGCSE Physics Student Checklist Section G25.doc  DVD Revision check list | Textbook  Pages 224-225; Questions (1) to (8)  Textbook Answers (PDF)  DVD Multiple choice test  Talking paper – Edexcel Physics Section G25 – Applications of Radioactivity  Chapter G25 Exam Question – pdf  Chapter G25 Exam Question mark scheme - pdf |

Videos – www.igcsesciencecourses.com

Textbook Ref: Edexcel International GCSE Physics Student Book - Pearson

DVD Video Clips – see resource DVD in textbook.