Edexcel iGCSE Physics 4PH0 Learning Plan

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| **Section G24: Radiation and Half-life** | | |
| Specification | Resources | Assessment |
| 7.8 understand that ionising radiations can be detected using a photographic film or a Geiger-Muller detector  7.9 explain the sources of background radiation  7.10 understand that the activity of a radioactive source decreases over a period of time and is measured in becquerels  7.11 understand the term ‘half-life’ and understand that it is different for different radioactive isotopes  7.12 use the concept of half-life to carry out simple calculations on activity | Video: Section 4 – Atomic Physics – Lesson 2 – Radioactivity – beginning to 04:59. Section 4 – Lesson 3 – Radioactive decay – beginning to 17:23  Powerpoint: Physics 23 – Radioactivity – beginning to slide 15. Physics 24 – Radioactive decay – beginning to slide 40.  Textbook: Ch.24 – Radiation and Half-life  Page 209 – Detecting ionising radiation  Page 210 – Background radiation  Page 211 – Radioactive decay  Page 212 – Half-life  Page 214 – Half-life calculations  Page 215 – End of Chapter Checklist  Edexcel iGCSE Physics Student Checklist Section G24.doc  DVD Revision check list | Textbook  Page 215- Questions (1) to (7)  Textbook Answers (PDF)  DVD Multiple choice test  Talking paper – Edexcel Physics Section G24 – Radiation and Half-life  Chapter G24 Exam Question – pdf  Chapter G24 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.