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 17:23Powerpoint: Physics 23 – Radioactivity – beginning to slide 15. Physics 24 – Radioactive decay – beginning to slide 40.Textbook: Ch.24 – Radiation and Half-lifePage 209 – Detecting ionising radiationPage 210 – Background radiationPage 211 – Radioactive decayPage 212 – Half-lifePage 214 – Half-life calculationsPage 215 – End of Chapter ChecklistEdexcel iGCSE Physics Student Checklist Section G24.docDVD Revision check list | TextbookPage 215- Questions (1) to (7)Textbook Answers (PDF)DVD Multiple choice testTalking paper – Edexcel Physics Section G24 – Radiation and Half-lifeChapter G24 Exam Question – pdfChapter 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.