Edexcel International GCSE Physics 4PH1 Learning Plan

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| **Unit: 7 Radioactivity and Particles** | **Chapter: 23. Radiation and Half-life** | **Hours: 4** |
| Content coverage | Learning outcomes | Resources | Assessment |
| Section 7: Radioactivity and Particlesb) Radioactivity | **7.9** know that photographic film or a Geiger−Müller detector can detect ionising radiations **7.10** explain the sources of background (ionising) radiation from Earth and space **7.11** know that the activity of a radioactive source decreases over a period of time and is measured in becquerels **7.12** know the definition of the term half-life and understand that it is different for different radioactive isotopes **7.13** use the concept of the half-life to carry out simple calculations on activity, including graphical methods  | Video and Powerpoint:4.2 Radioactivity4.3 Radioactive decayTextbook pages:Page 233 – Detecting ionising radiationPage 234 – Background radiationPage 236 – Radioactive decayPage 237 – Half-lifePage 239 – Half-life calculations | Pages 239 – 240Questions (1) to (6)Chapter 23 Textbook Answers (PDF)Chapter 23 - exam question - pdfChapter 23 - exam question mark scheme – pdfChapter 23 - Talking paper video  |

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

Textbook Ref: Edexcel International GCSE (9-1) Physics Student Book - Pearson (Arnold, Johnson, Woolley))