Edexcel iGCSE Physics 4PH0 Learning Plan

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| **Section G23: Atoms and Radioactivity** | | |
| Specification | Resources | Assessment |
| 7.1 use the following units: becquerel (Bq), centimetre (cm), hour (h), minute (min), second (s).  7.2 describe the structure of an atom in terms of protons, neutrons and electrons and use symbols such as C 14 6 to describe particular nuclei  7.3 understand the terms atomic (proton) number, mass (nucleon) number and isotope  7.4 understand that alpha and beta particles and gamma rays are ionising radiations emitted from unstable nuclei in a random process  7.5 describe the nature of alpha and beta particles and gamma rays and recall that they may be distinguished in terms of penetrating power  7.6 describe the effects on the atomic and mass numbers of a nucleus of the emission of each of the three main types of radiation  7.7 understand how to complete balanced nuclear equations | Video: Section 4 – Lesson 1 – The Nuclear Atom – beginning to 11:48. Section 4 – Lesson 2 – Radioactivity – 05:00 to end  Powerpoint: Physics 22 – The Nuclear Atom – beginning to slide 48. Physics 23 – Radioactivity – slides 16 to end.  Textbook: Ch.23 – Atoms and Radioactivity  Page 199 – Electrons, protons and neutrons  Page 200 – The atom  Page 201 – Isotopes  Page 202 – Ionising radiation  Page 204 – Nuclear transformations  Page 207 – End of Chapter Checklist  DVD Revision check list  Edexcel iGCSE Physics Student Checklist Section G23.doc | Textbook  Page 207-208; Questions (1) to (7)  Textbook Answers (PDF)  DVD Multiple choice test  Talking paper – Edexcel Physics Section G23 – Atoms and Radioactivity  Chapter G23 Exam Question – pdf  Chapter G23 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.