CiE iGCSE Physics 0625 Learning Plan

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| **Section 23: Radioactivity** |
| Specification | Resources | Assessment |
| **Core**• Demonstrate understanding of background radiation • Describe the detection of α-particles, β-particles and γ-rays (β + are not included: β-particles will be taken to refer to β-)* Discuss the random nature of radioactive emission
* Identify α, β and γ-emissions by recalling
* – their nature
* – their relative ionising effects
* – their relative penetrating abilities (β+ are not included, β-particles will be taken to refer to β–)

**Supplement*** Describe their deflection in electric fields and in magnetic fields
* Interpret their relative ionising effects
* Give and explain examples of practical applications of α, β and γ-emissions
 | Video: Physics Section 4 – Atomic Physics – Lesson 2 – RadioactivityPowerpoint: Physics 23 – RadioactivityTextbook Pages 252-253; Nuclear Radiation (1)Pages 254-255; Nuclear Radiation (2)Pages 260-261; Nuclear energyPages 262-263 ; Fusion futurePages 264-265; Using radioactivitySection 23 checklist.doc | TextbookPage 253; Questions (1) to (4)Page 255; Questions (1) to (4)Page 261; Questions (1) to (5)Page 263: Questions (1) to (5)Page 265; Questions (1) to (5)Textbook answers: Pages 331 - 332Talking Paper video – Section 23 – RadioactivitySection 23 Exam Question - pdf Section 23 Exam Question mark scheme - pdf  |

Videos – www.igcsesciencecourses.com

Textbook Ref: Complete Physics for Cambridge iGCSE (Stephen Pople) - OUP

DVD Assessments – see resource DVD in textbook.