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 – Radioactivity  Powerpoint: Physics 23 – Radioactivity  Textbook  Pages 252-253; Nuclear Radiation (1)  Pages 254-255; Nuclear Radiation (2)  Pages 260-261; Nuclear energy  Pages 262-263 ; Fusion future  Pages 264-265; Using radioactivity  Section 23 checklist.doc | Textbook  Page 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 - 332  Talking Paper video – Section 23 – Radioactivity  Section 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.