CiE iGCSE Physics 0625 Learning Plan

|  |  |  |
| --- | --- | --- |
| **Section 22: The Nuclear Atom** | | |
| Specification | Resources | Assessment |
| **Core**  • Describe the structure of an atom in terms of a positive nucleus and negative electrons   * Describe the composition of the nucleus in terms of protons and neutrons * State the charges of protons and neutrons * Use the term proton number Z * Use the term nucleon number A * Use the term nuclide and use the nuclide notation A ZX * Use and explain the term isotope   **Supplement**   * Describe how the scattering of α-particles by thin metal foils provides evidence for the nuclear atom * State the meaning of nuclear fission and nuclear fusion * Balance equations involving nuclide notation | Video: Physics Section 4 – Atomic Physics – Lesson 1 – The Nuclear Atom  Powerpoint: Physics 22 – The Atomic Atom  Textbook  Pages 250 - 251; Inside atoms  Pages 266 – 267; Atoms and particles (1)  Pages 268 – 269; Atoms and particles (2)  Section 22 checklist.doc | Textbook  Page 251; Questions (1) to (5)  Page 267; Questions (1) to (4)  Page 269; Questions (1) to (5)  Textbook answers: Page 331, Page 332  Talking Paper video – Section 22 – The Nuclear atom  Section 22 Exam Question - pdf  Section 22 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.