CiE iGCSE Physics Checklist

Section 22: The Nuclear Atom

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| ***I can***  | ☺ | 😐 | ☹ |
| **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  |  |  |  |
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| **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 |  |  |  |
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