CiE iGCSE Physics Checklist

Section 23: Radioactivity

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| **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–) |  |  |  |
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| **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 |  |  |  |
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