CiE iGCSE Physics Checklist

Section 23: Radioactivity

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