**Physics Revision: Radioactivity**

Mastery Matrix Points TRIPLE ONLY

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| --- |
| Describe sources of background radiation (triple) |
| Define dose and recall it’s units (triple) |
| Stability to half-life and the hazard level (triple) |
| Describe how radiation is used in medicine (triple) |
| Evaluate the risks associated with using radiation in medicine (triple) |

Key Knowledge

Suggest some sources of:

Man made background radiation.

Natural background radiation.

Definitions:

Dose

|  |  |  |
| --- | --- | --- |
| *Half Life* | *Initial risk level (high med or low?)* | *Risk level after a long time* |
| Short |  |  |
| Long |  |  |

Two medical uses of radiation:

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**Uses and Hazards**

Understanding and Explaining

1. **Explain some factors that might affect the dosage of radiation someone receives.**
2. **Describe how radioactive materials are used to explore internal organs.**
3. **Describe how radioactive materials are used to control or destroy tumours.**
4. **Evaluate the risks with using radioactive materials in the diagnosis and treatment of cancer.**