P4e-h Revision

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| Describe how to measure radiation | Show, with an equation, what happens when a carbon-14 atom emits a beta particle |
| Define radioactive decay | Ionising radiation can be dangerous because |
| Show, with an equation, what happens when a uranium-238 atom emits an alpha particle | List 4 uses of radioisotopes |

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| Explain how smoke alarms work | Explain how tracers work |
| Explain how U-238 can help date rocks |  |

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| How can gamma radiation sterilise equipment in hospitals? | Why is alpha radiation not used in therapy and diagnosis? |
| Explain why X rays and gamma rays are useful in medicine | Draw a flow chart to show a nuclear power station |
| Describe what’s meant by nuclear fission |
| Describe what’s meant by ‘chain reaction’ | What do boron rods do in a nuclear power station? |

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| Give two advantages of nuclear power | Give two disadvantages of nuclear power |
| How do we safely dispose of radioactive material? |  |