

- 1 State the 3 types of radiation.
- 2 Define 'ionisation'
- 3 Define 'ionising power'
- 4 Put alpha, beta and gamma radiation in order of their ionising strength (**low to high**)
- 5 Define 'penetrating power'
- 6 Put alpha, beta and gamma radiation in order of their penetrating power (**low to high**)
- 7 What stops: a) an **α -particle** b) a **β particle** b) **gamma radiation**
- 8 Which radiation is has the highest speed?
- 9 Define the 'range'
- 10 Put alpha, beta and gamma radiation in order of their range (**low to high**)

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Source at 5 mm from tube	Average count rate (counts/minute)
No source present	5
Nothing between Geiger counter & source	400
Thin paper between Geiger counter & source	370
3mm aluminum sheet between Geiger counter & source	13

- a) Explain how you decided which type of radiation the source was emitting.

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Source at 60 mm from tube	Average count rate (counts/minute)
No source present	5
Nothing between Geiger counter & source	7
Thin paper between Geiger counter & source	5
3mm aluminum sheet between Geiger counter & source	5

- a) Explain how you decided which type of radiation the source was emitting.