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# Radioactive Decay and Nuclear Equations GCSE Combined Physics

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### Nuclear Equations (Beta)

**Easy**

$${}^{14}_6\text{C} \rightarrow {}^{14}_7\text{N} + {}^0_{-1}\text{e}$$

$${}^{40}_{19}\text{K} \rightarrow \text{---Ca} + {}^0_{-1}\text{e}$$

$${}^{131}_{53}\text{I} \rightarrow \text{---Xe} + {}^0_{-1}\text{e}$$

$${}^{64}_{28}\text{Cu} \rightarrow \text{---Zn} + {}^0_{-1}\text{e}$$

**Medium**

$${}^{60}_{27}\text{Co} \rightarrow {}^{58}_{26}\text{Ni} + {}^0_{-1}\text{e}$$

$$\text{---} + {}^0_{-1}\text{e} \rightarrow \text{---}$$

**Hard**

$${}^{18}_8\text{O} \rightarrow \text{---}$$

$${}^{13}_7\text{N} \rightarrow \text{---}$$

### Nuclear Equations (Alpha)

**Easy**

$${}^{237}_{93}\text{Np} \rightarrow \text{---Pa} + {}^4_2\alpha$$

$${}^{224}_{86}\text{Rn} \rightarrow \text{---Ti} + {}^4_2\alpha$$

$${}^{238}_{92}\text{U} \rightarrow \text{---Th} + {}^4_2\alpha$$

$${}^{234}_{90}\text{Th} \rightarrow \text{---} + {}^4_2\alpha$$

**Medium**

$${}^{238}_{92}\text{U} \rightarrow {}^{234}_{90}\text{Th} + {}^4_2\alpha$$

**Hard**

$${}^{167}_{66}\text{Dy} \rightarrow \text{---} + {}^4_2\alpha$$

$${}^{152}_{64}\text{Sm} \rightarrow \text{---} + {}^4_2\alpha$$

$${}^{176}_{71}\text{Lu} \rightarrow \text{---} + {}^4_2\alpha$$

$${}^{158}_{68}\text{Er} \rightarrow \text{---} + {}^4_2\alpha$$

$$\text{---} \rightarrow {}^{231}_{90}\text{Th} + {}^4_2\alpha$$

$$\text{---} \rightarrow {}^{245}_{94}\text{Pu} + {}^4_2\alpha$$

$${}^{234}_{91}\text{Pa} \rightarrow \text{---} + {}^4_2\alpha$$

$${}^{145}_{61}\text{Pr} \rightarrow \text{---} + {}^4_2\alpha$$

## Radioactive Decay and Nuclear Radiation

Complete the information below about radioactive decay.

Atoms \_\_\_\_\_ can be \_\_\_\_\_ and to become stable, they must \_\_\_\_\_ radiation in different forms. Radioactive decay is a \_\_\_\_\_ process and so cannot be \_\_\_\_\_.

Activity is the rate at which unstable nuclei emit radiation (decaying) and is measured in a \_\_\_\_\_ (Bq).

Geiger-muller \_\_\_\_\_ (Geiger counters) detect the count rate (number of decays per \_\_\_\_\_) of unstable nuclei.

**Keywords:** Nuclei, Emission, Second, Tubes, Predicted, Unstable, Background.

Complete the table below about the different types of radiation that is emitted by unstable nuclei.

	Alpha ( $\alpha$ )	Beta ( $\beta$ )	Gamma ( $\gamma$ )
Structure			
Penetration			
Range in Air			
Ionising Power			

Describe what gamma radiation is and how it changes the mass and charge of an atom.

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**M Tight**



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