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Radioactive Decay and Nuclear Equations GCSE Combined Physics

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Nuclear Equations (Beta)

Easy

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

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

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

$${}^{64}_{29}\text{Cu} \rightarrow \text{---Zn} + {}^0_{-1}\text{e}$$

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

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

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

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

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

Medium

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

Hard

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

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

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

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

$$\text{---} \rightarrow {}^{231}_{91}\text{Pa} + {}^4_2\alpha$$

$$\text{---} \rightarrow {}^{245}_{96}\text{Cf} + {}^4_2\alpha$$

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

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

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-müller _____ (Geiger counters) detect the count rate (number of decays per _____) of unstable nuclei.

Keywords: Nuclei, Emission, Decay, Alpha, Beta, Gamma, Positron, Neutrino, Proton, Neutron, Electron, Positron, Neutrino.

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

	Alpha (α)	Beta (β)	Gamma (γ)
Structure			
Penetration			
Range in Air			
Ionising Power			

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

Measuring Nuclear Decay Practice Problems Physics

M Woodhall



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