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Radioactive Decay and Nuclear Equations GCSE Combined Physics

Great for
Revision and
in Class

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-muller _____ (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.

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concepts are illustrated with case studies and results of the committee's surveys of individual researchers and university provosts ERDA Energy Research Abstracts United States. Energy Research and Development Administration, 1976-05

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