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# Radioactive Decay and Nuclear Equations GCSE Combined Physics

Great for  
Revision and  
in Class

### Nuclear Equations (Beta)

**Easy**

$$^{14}_6\text{C} \rightarrow ^{14}_7\text{N} + ^{-1}_0\text{e}$$

$$^{40}_{19}\text{K} \rightarrow \text{---Ca} + ^{-1}_0\text{e}$$

$$^{131}_{53}\text{I} \rightarrow \text{---Xe} + ^{-1}_0\text{e}$$

$$^{64}_{29}\text{Cu} \rightarrow \text{---Zn} + ^{-1}_0\text{e}$$

**Medium**

$$^{60}_{27}\text{Co} \rightarrow ^{60}_{28}\text{Ni} + ^{-1}_0\text{e}$$

$$^{13}_{7}\text{N} \rightarrow \text{---} + ^{-1}_0\text{e}$$

**Hard**

$$^{137}_{54}\text{Xe} \rightarrow \text{---} + ^{-1}_0\text{e}$$

$$^{137}_{55}\text{Cs} \rightarrow \text{---Ba} + ^{-1}_0\text{e}$$

$$^{210}_{82}\text{Pb} \rightarrow \text{---Bi} + ^{-1}_0\text{e}$$

$$^{210}_{83}\text{Bi} \rightarrow \text{---Po} + ^{-1}_0\text{e}$$

$$^{140}_{54}\text{Ba} \rightarrow \text{---La} + ^{-1}_0\text{e}$$

$$^{124}_{51}\text{Sb} \rightarrow \text{---Te} + ^{-1}_0\text{e}$$

### Nuclear Equations (Alpha)

**Easy**

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

$$^{223}_{88}\text{Rn} \rightarrow \text{---Ti} + ^4_2\alpha$$

$$^{235}_{92}\text{U} \rightarrow \text{---Th} + ^4_2\alpha$$

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

**Medium**

$$^{235}_{92}\text{U} \rightarrow ^{231}_{90}\text{Th} + ^4_2\text{He}$$

**Hard**

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

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

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

$$^{158}_{64}\text{Gd} \rightarrow \text{---Er} + ^4_2\alpha$$

$$\text{---Cr} \rightarrow ^{245}_{98}\text{Cf} + ^4_2\alpha$$

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

$$^{145}_{54}\text{Xe} \rightarrow \text{---} + ^4_2\alpha$$

### 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, Electron, Proton, Neutron, Isotope, Stable, Unstable, Radioactive.

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.

# Measuring Nuclear Decay Practice Problems Physics

**Padhraic Smyth**



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resource allocation that favor traditional disciplines This report identifies steps that researchers teachers students institutions funding organizations and disciplinary societies can take to more effectively conduct facilitate and evaluate interdisciplinary research programs and projects Throughout the report key concepts are illustrated with case studies and results of the committee s surveys of individual researchers and university provosts *Examining the Examinations* E.D. Britton,S. Raizen,2012-12-06 Examining the Examinations looks at the required advanced science and mathematics examinations taken by university bound students in seven countries This research focuses on topics covered types of questions used and performance expected from students The book concentrates on comparisons of the examinations illustrating their similarities and differences with selected questions taken from the actual examinations The international comparisons presented offer a window on educational laboratories in seven countries

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