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# Radioactive Decay and Nuclear Equations GCSE Combined Physics

Great for  
Revision and  
in Class

### Nuclear Equations (Beta)

**Easy**

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

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

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

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

**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**

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

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

$${}^{176}_{70}\text{---} \rightarrow {}^{172}_{68}\text{---} + {}^4_2\alpha$$

$${}^{158}_{74}\text{---} \rightarrow {}^{154}_{72}\text{---} + {}^4_2\alpha$$

$$\text{---} \rightarrow {}^{215}_{84}\text{Po} + {}^4_2\alpha$$

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

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

## 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, Spontaneous, Transmutation, 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.

# Measuring Nuclear Decay Practice Problems Physics

**Nicholas Tsoulfanidis, Sheldon  
Landsberger**



## **Measuring Nuclear Decay Practice Problems Physics:**

**Practice makes permanent: 350+ questions for AQA GCSE Physics** Kimberley Walrond, Darren Forbes, 2020-08-10 Practise and prepare for AQA GCSE Physics with hundreds of topic based questions and one complete set of exam practice papers designed to strengthen knowledge and prepare students for the exams This extensive practice book raises students performance by providing shed loads of practice following the SLOP learning approach that s recommended by teachers Consolidate knowledge and understanding with practice questions for every topic and type of question including multiple choice multi step calculations and extended response questions Develop the mathematical literacy and practical skills required for the exams each question indicates in the margin which skills are being tested Confidently approach the exam having completed one set of exam style practice papers that replicate the types wording and structure of the questions students will face Identify topics and skills for revision using the page references in the margin to refer back to the specification and accompanying Hodder Education Student Books for remediation Easily check answers with fully worked solutions and mark schemes provided in the book

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*Measurement and Detection of Radiation* Nicholas Tsoulfanidis, Sheldon Landsberger, 2021-09-15 As useful to students and nuclear professionals as its popular predecessors this fifth edition provides the most up to date and accessible introduction to radiation detector materials systems and applications There have been many advances in the field of radiation detection most notably in practical applications Incorporating these important developments *Measurement and Detection of Radiation Fifth Edition* provides the most up to date and accessible introduction to radiation detector materials systems and applications It also includes more problems and updated references and bibliographies and step by step derivations and numerous examples illustrate key concepts New to the Fifth Edition Expanded chapters on semiconductor detectors data analysis methods health physics fundamentals and nuclear forensics Updated references and bibliographies New and expanded problems

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**NBS Special Publication** , 1975

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