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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

$${}^{105}_{47}\text{Ag} \rightarrow \text{---} + {}^0_{-1}\text{e}$$

$${}^{137}_{54}\text{Xe} \rightarrow \text{---} + {}^0_{-1}\text{e}$$

Nuclear Equations (Alpha)

Easy

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

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

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

$${}^{221}_{87}\text{Fr} \rightarrow \text{---} + {}^4_2\alpha$$

Medium

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

Hard

$${}^{267}_{108}\text{Dy} \rightarrow \text{---} + {}^4_2\alpha$$

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

$${}^{179}_{71}\text{Lu} \rightarrow \text{---} + {}^4_2\alpha$$

$${}^{135}_{54}\text{Xe} \rightarrow \text{---} + {}^4_2\alpha$$

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

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

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

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

Keywords: Nuclei, Emission, Decay, Alpha, Beta, Gamma, Radioactive, Unstable, Background.

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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Kimberley Walrond, Darren Forbes



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Table of Contents Measuring Nuclear Decay Practice Problems Physics

1. Understanding the eBook Measuring Nuclear Decay Practice Problems Physics
 - The Rise of Digital Reading Measuring Nuclear Decay Practice Problems Physics
 - Advantages of eBooks Over Traditional Books
2. Identifying Measuring Nuclear Decay Practice Problems Physics
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Measuring Nuclear Decay Practice Problems Physics
 - User-Friendly Interface
4. Exploring eBook Recommendations from Measuring Nuclear Decay Practice Problems Physics
 - Personalized Recommendations
 - Measuring Nuclear Decay Practice Problems Physics User Reviews and Ratings
 - Measuring Nuclear Decay Practice Problems Physics and Bestseller Lists
5. Accessing Measuring Nuclear Decay Practice Problems Physics Free and Paid eBooks
 - Measuring Nuclear Decay Practice Problems Physics Public Domain eBooks
 - Measuring Nuclear Decay Practice Problems Physics eBook Subscription Services
 - Measuring Nuclear Decay Practice Problems Physics Budget-Friendly Options

6. Navigating Measuring Nuclear Decay Practice Problems Physics eBook Formats
 - ePub, PDF, MOBI, and More
 - Measuring Nuclear Decay Practice Problems Physics Compatibility with Devices
 - Measuring Nuclear Decay Practice Problems Physics Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Measuring Nuclear Decay Practice Problems Physics
 - Highlighting and Note-Taking Measuring Nuclear Decay Practice Problems Physics
 - Interactive Elements Measuring Nuclear Decay Practice Problems Physics
8. Staying Engaged with Measuring Nuclear Decay Practice Problems Physics
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Measuring Nuclear Decay Practice Problems Physics
9. Balancing eBooks and Physical Books Measuring Nuclear Decay Practice Problems Physics
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Measuring Nuclear Decay Practice Problems Physics
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Measuring Nuclear Decay Practice Problems Physics
 - Setting Reading Goals Measuring Nuclear Decay Practice Problems Physics
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Measuring Nuclear Decay Practice Problems Physics
 - Fact-Checking eBook Content of Measuring Nuclear Decay Practice Problems Physics
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

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