

# ENERGY RESOURCES

## Renewable

**Tidal**  
predictable

has to be built across estuary (tidal meet stream)

**hydroelectric:**

pumped storage, excess energy is used to pump water back up

expensive to build  
has to be in area with rain fall

**Solar**  
no gas pollution  
only works in daytime

**RENEWABLE ENERGY RESOURCES**

**biomass/fuel**  
carbon neutral  
loss of food + habitats

**geothermal** - no pollution gas  
can only be built in certain areas (volcanic)

**wave**  
no gas pollution  
weather/wave dependant

**wind** - can be put off shore in sea  
no gas pollution  
noise + visual pollution  
weather dependant

## non-renewable

advantages

disadvantages

**Fossil fuels:**

~~renewable resource~~

produces CO<sub>2</sub> (global warming)

coal produces SO<sub>2</sub> - raintail acid rain

**NON-RENEWABLE ENERGY RESOURCES**

**nuclear**

no polluting gas

produces radioactive waste

use uranium/plutonium  
nuclear fission  
produces heat

**DENSITY** ~ a measurement of how much mass there is in a given space.  
**DENSITY = MASS / VOLUME**

the density of an object is 8050 kg and has a volume of 3.4 m<sup>3</sup>, what is the mass?

$$8050 = \text{mass} \div 3.4, 8050 \times 3.4 = \text{mass}$$

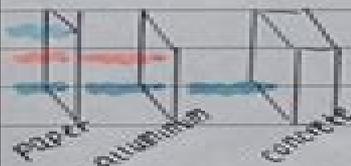
$$\text{mass} = 27370 \text{ kg.}$$

A MORE DENSE MATERIAL WILL HAVE MORE PARTICLES IN THE SAME VOLUME WHEN COMPARED TO A LESS DENSE MATERIAL.



## RADIO ACTIVITY

**alpha radiation** consists of alpha particles. An alpha particle is identical to the nucleus of helium atom, which is 2 protons + 2 neutrons.



**beta radiation** consists of high energy electrons emitted from the nucleus. They form when a neutron splits into a proton and an electron.

**gamma radiation** is very short wavelength, high frequency, electromagnetic radiation which is similar to other types of electromagnetic radiation, such as visible light.

# Gcse Physics Notes

**Puja Mehta**



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## **Table of Contents Gcse Physics Notes**

1. Understanding the eBook Gcse Physics Notes
  - The Rise of Digital Reading Gcse Physics Notes
  - Advantages of eBooks Over Traditional Books
2. Identifying Gcse Physics Notes
  - 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 Gcse Physics Notes
  - User-Friendly Interface
4. Exploring eBook Recommendations from Gcse Physics Notes
  - Personalized Recommendations
  - Gcse Physics Notes User Reviews and Ratings
  - Gcse Physics Notes and Bestseller Lists
5. Accessing Gcse Physics Notes Free and Paid eBooks
  - Gcse Physics Notes Public Domain eBooks

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

## 14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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**dead silence**

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