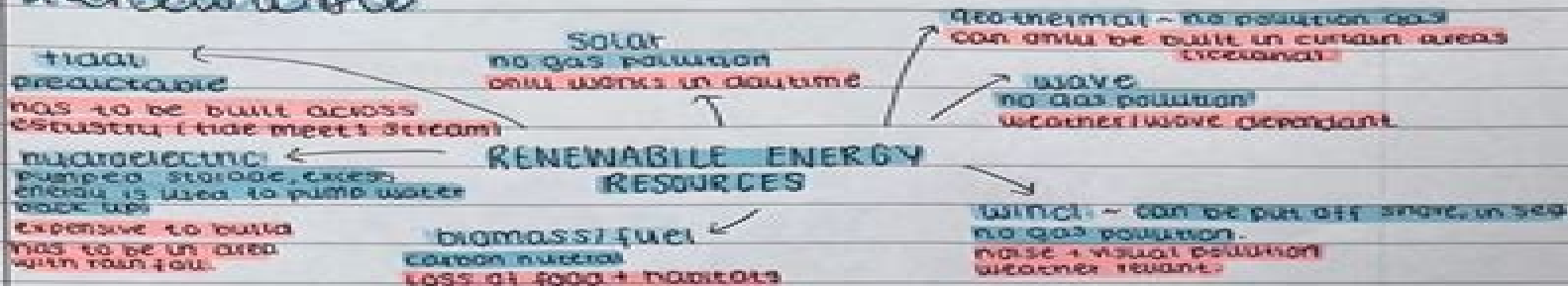


# ENERGY RESOURCES

## Renewable



## non-renewable

advantages

disadvantages

**Fossil fuels**  
~~renewable resource~~  
 produces CO<sub>2</sub> (global warming)  
 coal produces 80% of electricity in the world  
 oil produces 30% of electricity in the world

## 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/m<sup>3</sup> and has a volume of 3.4 m<sup>3</sup>, what is the mass?

$$8050 = \text{mass} / 3.4, \quad 8050 \times 3.4 = \text{mass}$$

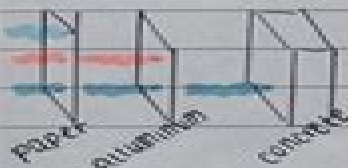
$$\text{mass} = 27370 \text{ kg}$$

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

**BM King**



## Gcse Physics Notes:

The book delves into Gcse Physics Notes. Gcse Physics Notes is an essential topic that needs to be grasped by everyone, from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Gcse Physics Notes, encompassing both the fundamentals and more intricate discussions.

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