

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:

scarce resource

produces CO₂ (global warming)

coal produces 80% of electricity in UK
oil: main

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/m³ and has a volume of 3.4 m³, what is the mass?

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

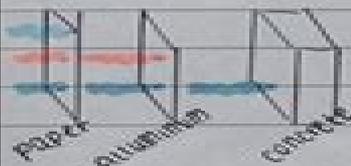
$$\text{mass} = 27370 \text{ kg}$$

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

Judd E. Hollander



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