

ENERGY CANNOT BE CREATED OR DESTROYED – ONLY TRANSFERRED

CONSERVATION OF ENERGY

In closed systems the total energy remains the same, nothing is lost externally.



Efficiency = $\frac{\text{useful energy out}}{\text{total energy in}}$

To increase efficiency:
 Lubricate moving parts to reduce friction
 Use low resistance wiring
 Aerodynamic shape to reduce air resistance
 Reduce vibrations of loose parts

Useful = light 60W
 Total = 60+20+10 = 90W
 $\frac{60}{90} = 0.66$ 0.66 x 100 = 66%

The more powerful an object, the faster the rate at which it transfers energy



POWER

Wasted energy = Total power in - useful energy

Appliance	Power rating
Torch	1W
Light bulb	100W
Car horn	1000W

efficiency = $\frac{\text{useful power out}}{\text{total power in}} \times 100$

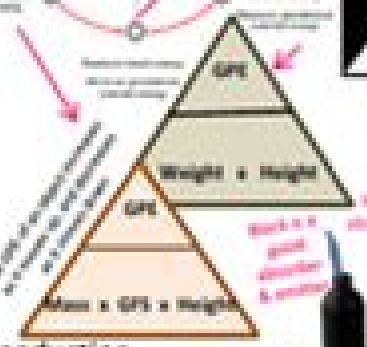
Physics Paper 1



Specific Heat Capacity
 The amount of energy needed to raise the temperature of 1kg of a substance by 1°C



The higher the heat capacity, the more energy needed to raise the temperature



Q = mcΔT
 Q = heat energy
 m = mass
 c = specific heat capacity
 ΔT = temperature change

Prefix	Symbol	10 ³	10 ²	10 ¹	10 ⁰	10 ⁻¹	10 ⁻²	10 ⁻³	10 ⁻⁴
Symbol		k	h			d	c	m	μ
Multiplying factor		10 ³	10 ²	10 ¹	10 ⁰	10 ⁻¹	10 ⁻²	10 ⁻³	10 ⁻⁴



Energy demands!!

Renewable Energy: Energy from natural resources that are always being replenished, therefore won't run out.

Non-Renewable Energy: Energy from sources such as fossil fuels, which have limited supply and will eventually run out.

Energy Resource	Process	Advantages	Disadvantages
Wind	Wind turbines rotated using wind, which rotates generators	Renewable, no greenhouse gases	Reliability - wind (lower energy transfer), Wind and noise pollution
Solar	Absorbs solar radiation, heats up water flowing through pipes	Renewable, no greenhouse gases	Reliability - sun (lower energy transfer), Wind pollution
Wave	Flapping generators move up and down turning internal generators	Renewable, no greenhouse gases	Reliability - waves (lower energy transfer), Wind pollution
Geothermal	Energy from earth's radioactive substances, heat water which turns turbines/generators	Renewable, no greenhouse gases	Reliability (lower energy transfer), Only in ground
Hydroelectric	Water collected in reservoirs and released downhill to turn a dam, rotating turbines which then drive generators	Renewable, no greenhouse gases	Reliability - rain (lower energy transfer), Wind and noise pollution, loss of habitat
Fossil fuels	Burning oil or gas, burning in power stations, heat water into steam which turns turbines/generators	Reliable, high demand, Transfers higher quantities of energy than renewables	Still run out, Release high amounts of carbon dioxide, greenhouse gases and particulates into atmosphere
Nuclear	Using uranium or plutonium rods in controlled reaction, absorbing energy transferred during nuclear reactions	No fossil fuels, More energy transferred per kg than fossil fuels	Radioactive waste, Storage for centuries, leaks/explosions in reactors releases radioactive material

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half life worksheet liberty union high school district - Jul 13 2023

web the half life of iodine 125 is 60 days what fraction of iodine 125 nuclides would be left after 360 days 360 60 6 half lives 1 $\frac{1}{2}$ $\frac{1}{4}$ 1 8 1 16 1 32 1 64 titanium 51 decays

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web this activity is a very engaging way for students to practice half life calculations it includes six different problems where you solve for different answers it includes calculating one

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