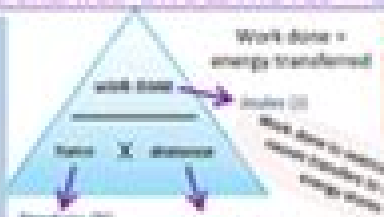


ENERGY CANNOT BE CREATED OR DESTROYED – ONLY TRANSFERRED

CONSERVATION OF ENERGY

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



Useful energy out
Light 60J
Heat 40J
Total 100J

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 60J
Total = 60+40+10 = 110J
 $60 \div 110 = 0.545$ 0.545 x 100 = 54.5%

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



POWER

Wasted energy
= Total power in - useful energy

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

Appliance	Power rating
Torch	2W
Light bulb	100W
Car horn	1000W



- Degrees Celsius (°C)
- Kilograms (kg)
- Joules (J)
- Joules per kilogram per degree Celsius (J/kg °C)

Physics Paper 1

Insulating buildings



Energy demands!!

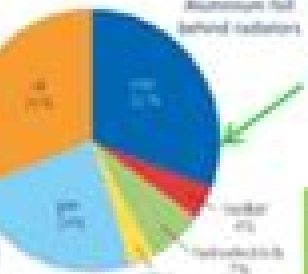
Wind, Wave, Tidal, Geothermal

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

Hydroelectric

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

Fossil fuels, Nuclear



Carbon Neutral: when an organism (e.g. humans) takes in as much carbon dioxide from the atmosphere as they release when burned

Conduction



Insulation
I/X - insulating material around the beakers
ΔT - temperature change of the water.
Control - size of beaker, volume of water, thickness of material, same thermometer, time left for

Prefix	giga	mega	kilo	centi	milli	micro	nanosec	tera
Symbol	G	M	k	c	m	μ	n	T
Multiplying factor	10 ⁹	10 ⁶	10 ³	10 ⁻²	10 ⁻³	10 ⁻⁶	10 ⁻⁹	10 ¹²

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