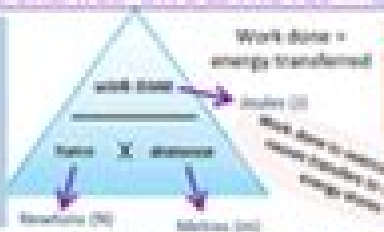


ENERGY CANNOT BE CREATED OR DESTROYED – ONLY TRANSFERRED

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



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



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

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

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

Physics Paper 1

Insulating buildings

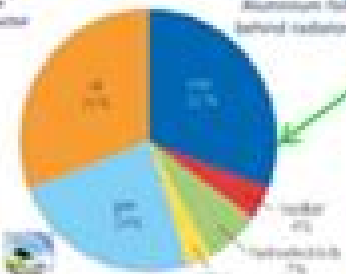


Energy demands!!

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.

Fossil fuels Nuclear



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

Conduction



Q = $\frac{P}{t}$ - Insulating material around the beakers
Q = $\frac{P}{t}$ - temperature change of the water.
Control - size of beaker, volume of water, thickness of material, same thermometer, time left for

Prefix	10 ¹	10 ²	10 ³	10 ⁶	10 ⁹	10 ¹²	10 ¹⁵	10 ¹⁸
Symbol	da	de	k	M	G	T	P	E
Multiplying factor	10 ¹	10 ²	10 ³	10 ⁶	10 ⁹	10 ¹²	10 ¹⁵	10 ¹⁸

Phyiscs Paper1 20grade 1

Tao Wei

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the name 'Tao Wei'.

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