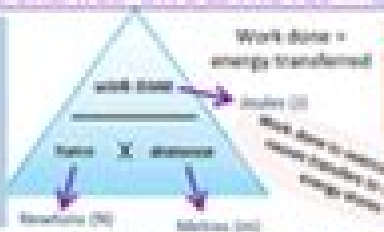


ENERGY CANNOT BE CREATED OR DESTROYED – ONLY TRANSFERRED

CONSERVATION OF ENERGY

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



Useful energy out: **LIGHT**
Waste: **HEAT**

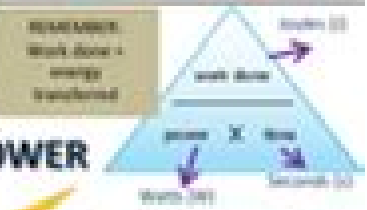
Useful energy out: **THERMAL**
Waste: **SOUND**

Efficiency = useful energy out / 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+20 = 100
60/100 = 0.6, 0.6 x 100 = 60%

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



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



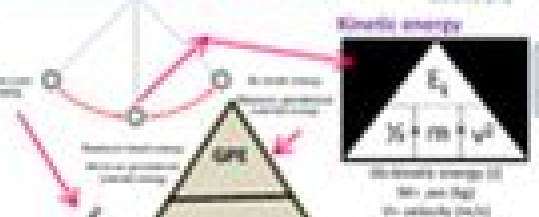
The higher the heat capacity, the more energy needed to raise the temperature

POWER

Wasted energy
= Total power in - useful energy

Appliance	Power rating
Toaster	1000
Light bulb	100W
Car horn	10000W

Physics Paper 1



Conduction
Heat is transferred through a material without the material moving.

Insulation
L/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

Heat is a poor conductor & insulator

Water is a poor conductor & insulator

Prefix	Symbol	10 ¹	10 ²	10 ³	10 ⁶	10 ⁹	10 ¹²	10 ¹⁵	10 ¹⁸
Symbol		da	deca	hecto	kilo	mega	giga	tera	petta
Multiplying factor		10 ¹	10 ²	10 ³	10 ⁶	10 ⁹	10 ¹²	10 ¹⁵	10 ¹⁸

Elastic potential energy
 $E_e = \frac{1}{2} kx^2$
k = Spring constant
x = extension of spring

Insulating buildings



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

Wasted energy
= Total power in - useful energy

efficiency = (useful power out / total power in) x 100

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

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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

Renewable Energy: Energy from natural resources that are always being replenished, therefore won't 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	Flowing generation, wind 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), Risky, only ground
Hydroelectric	Waterfalls collected in reservoirs are released downhill, turn a shaft, rotating turbines which then drive generators	Renewable, no greenhouse gases	Reliability - sun (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/dangerous to humans releases radioactive material

Aqa Gcse Physics Unit 1 Revision Notes

Mary Jones,Nicky Thomas,Ann Tiernan

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