

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
 $60 \div 90 = 0.66$ 0.66 x 100 = 66%

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



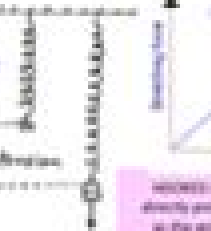
POWER

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

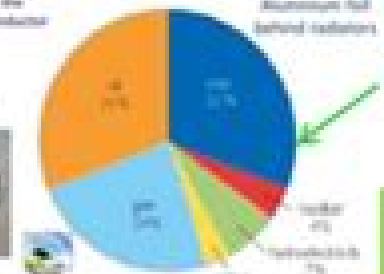


Specific Heat Capacity
The amount of energy needed to raise the temperature of 1kg of a substance by 1°C



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

Conduction



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.

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

Insulation



U.V. - 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	deci	centi	milli	micro	nano
Symbol	G	M	k	d	c	m	μ	n
Multiplying factor	10 ⁹	10 ⁶	10 ³	10 ⁻¹	10 ⁻²	10 ⁻³	10 ⁻⁶	10 ⁻⁹

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	Flaring 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 - sun (lower energy transfer), Wind and noise pollution, loss of habitat
Fossil fuels	Burns containing hydrocarbons control total movement, driving generators	Renewable, no greenhouse gases	Reliability - high rates (lower energy transfer), Wind pollution
Nuclear	Heat, oil or gas burning in power stations, heat water into steam which turns turbines/generators	Reliable, high demand, Transfers higher quantities of energy than renewable	Still run out, Release high amounts of carbon dioxide, greenhouse gases and particulates into atmosphere, 1000W
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

Grade 12 Physics Paper 1 Revision

BM King



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