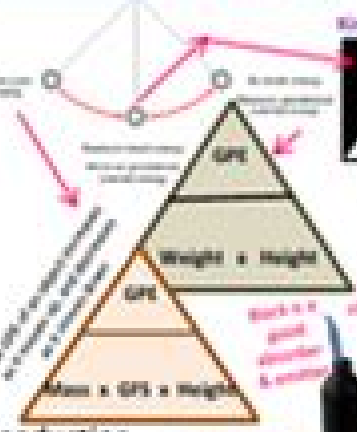


ENERGY CANNOT BE CREATED OR DESTROYED – ONLY TRANSFERRED

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



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

Wasted energy

Wasted energy = Total power in - useful energy

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

Physics Paper 1

Insulating buildings



Conduction

Heat is transferred through the material.

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	Symbol	10 ¹	10 ²	10 ³	10 ⁴	10 ⁵	10 ⁶	10 ⁷	10 ⁸
Symbol		10	100	1,000	10,000	100,000	1,000,000	10,000,000	100,000,000
Multiplying factor		10 ¹	10 ²	10 ³	10 ⁴	10 ⁵	10 ⁶	10 ⁷	10 ⁸



Energy demands!!

Wind Wave Tidal Geothermal

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

Hydroelectric Solar

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

Fossil fuels Nuclear

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
Tidal	Electricity solar radiation, heats up water floating through pipes	Renewable, no greenhouse gases	Reliability - sun (lower energy transfer), Wind pollution
Wave	Floating generators wave 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), Dried, only ground
Hydroelectric	Water collected in reservoirs and released through turbines, rotating turbines which then drive generators	Renewable, no greenhouse gases	Reliability - sun (lower energy transfer), Wind and noise pollution, Loss of habitat
Solar	Batteries collecting sunlight convert solar radiation into electricity	Renewable, no greenhouse gases	Reliability - high rates (lower energy transfer), Wind pollution
Fossil fuels	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 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

Grade 12 Physics Paper 1 Revision

Ernst Steiger



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