

ENERGY CANNOT BE CREATED OR DESTROYED – ONLY TRANSFERRED

CONSERVATION OF ENERGY

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

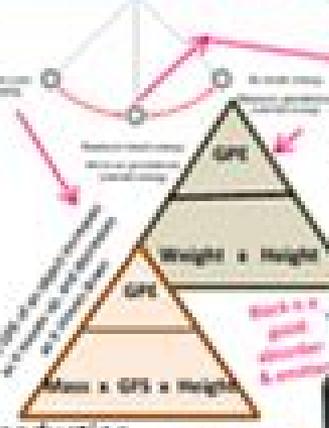


Efficiency = $\frac{\text{useful energy out}}{\text{total energy in}}$

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
 $\frac{60}{90} = 0.66 = 0.66 \times 100 = 66\%$

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



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



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



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

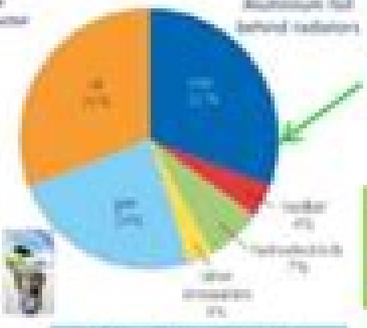
Wasted energy = Total power in - useful energy

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

Physics Paper 1



Conduction
 Insulation
 Insulating material around the beakers
 Temperature change of the water
 Control - size of beaker, volume of water, thickness of material, same thermometer, time left for



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

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

Energy Resource	Process	Advantages	Disadvantages
Wind	Wind turbines rotated using wind, which rotates generators	Renewable, no greenhouse gases	Reliability - wind (lower energy transfer), Visual and noise pollution
Solar	Solar cells collect radiation, heat of water flowing through pipes	Renewable, no greenhouse gases	Reliability - sun (lower energy transfer), Visual pollution
Wave	Floating generators wave up and down, turning internal generators	Renewable, no greenhouse gases	Reliability - waves (lower energy transfer), Visual pollution
Sea Thermal	Energy from earth (radioactive substances, heat water which turns turbines/generators)	Renewable, no greenhouse gases	Reliability, lower energy transfer (dirt, sea ground)
Hydroelectric	Waterfalls collected in reservoirs are released (downstream) a dam, rotating turbines which then drive generators	Renewable, no greenhouse gases	Reliability - sun (lower energy transfer), Visual and noise pollution, loss of habitat
Tidal	Generators containing turbines control tidal movement, driving generators	Renewable, no greenhouse gases	Reliability - high tides (lower energy transfer), Visual pollution
Fossil fuels	Heat of oil or gas burning in power stations, heat water into steam which turns turbines/generators	Reliable, High demand, Generates higher quantities of energy than renewables (NPP)	Will run out, Release high amounts of carbon dioxide, greenhouse gas and particulates into atmosphere
Nuclear	Using uranium or plutonium fuel in controlled reaction, obtaining energy transferred during nuclear reactions	No fossil fuels, More energy transferred per kg than fossil fuels	Radioactive waste, Storage for centuries, Radioactive materials in nuclear reactors, Radioactive material

Grade 12 Physics Paper 1 Revision

Yicheng Fang



Grade 12 Physics Paper 1 Revision:

Grade 12 Physics Paper 1 Revision Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is really remarkable. This extraordinary book, aptly titled "**Grade 12 Physics Paper 1 Revision**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound affect our existence. Throughout this critique, we shall delve into the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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