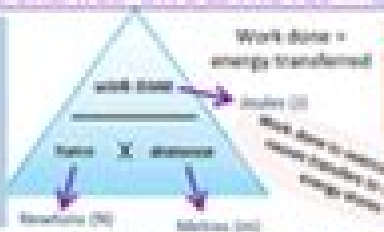


# ENERGY CANNOT BE CREATED OR DESTROYED – ONLY TRANSFERRED

## CONSERVATION OF ENERGY

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



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

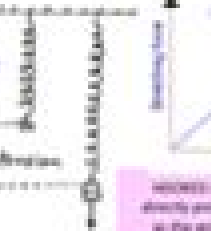
To increase efficiency:  
Lubricate moving parts to reduce friction  
Use low resistance wiring  
Aerodynamic shape to reduce air resistance  
Reduce vibrations of loose parts

Useful = light 60W  
Total = 60+20+20 = 100  
 $60 \div 100 = 0.6$  0.6 x 100 = 60%

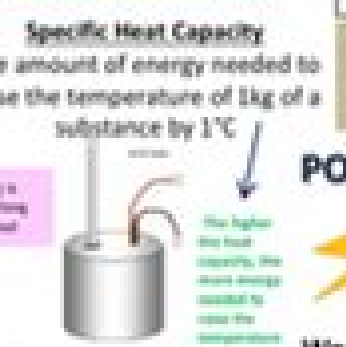
The more powerful an object, the faster the rate at which it transfers energy



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



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



## POWER

Wasted energy  
= Total power in - useful energy

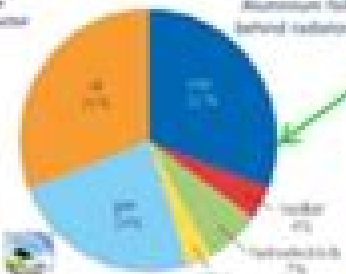
Appliance	Power rating
Torch	2W
Light bulb	100W
Car horn	1000W

# Physics Paper 1

## Insulating buildings



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.  
Wind, Wave, Tidal, Geothermal, Hydroelectric, Solar

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

Prefix	Symbol	10 <sup>1</sup>	10 <sup>2</sup>	10 <sup>3</sup>	10 <sup>4</sup>	10 <sup>5</sup>	10 <sup>6</sup>	10 <sup>7</sup>	10 <sup>8</sup>
Symbol		10	100	1,000	10,000	100,000	1,000,000	10,000,000	100,000,000
Multiplying factor		10 <sup>1</sup>	10 <sup>2</sup>	10 <sup>3</sup>	10 <sup>4</sup>	10 <sup>5</sup>	10 <sup>6</sup>	10 <sup>7</sup>	10 <sup>8</sup>

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), Only in 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
Solar	Solar panels convert sunlight into electricity	Renewable, No greenhouse gases	Reliability - high rates (lower energy transfer), Wind pollution
Fossil fuels	Coal, 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 health, Releases radioactive material

# Aqa Gcse Physics Unit 1 Revision Notes

**F Rizvi**



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**multiple point masses ansys learning forum** - Apr 13 2022

web jun 12 2020 multiple point masses june 10 2020 at 6 45 pm andreapasquale subscriber i would like to insert in mechanical two point masses associated to specific points on the same surface like in the figure attached is there any way to do that in particular which kind of objects should the point a and b be point mass for sure but how to configure them

[how to see effect of point mass on structure ansys learning](#) - Jun 15 2022

web dec 30 2019 1 insert point mass on faces 2 give fixed support 3 apply acceleration 2g in upward direction 4 solve what you think on this sequence is it give result that what we want december 30 2019 at 12 48 pm peteroznewman subscriber please paste into your reply the url of the webpage where you found the 2g acceleration i hadn t heard of

**chapter 5 vibration analysis etu** - Feb 23 2023

web geometry and point mass training manual modal analysis supports any type of geometry solid bodies surface bodies and line bodies the point mass feature can be used the point mass adds mass only no stiffness in a free vibration analysis point masses will decrease the natural frequency in free vibration analyses

**ansys store convert to point massv1 created by ansys inc** - Feb 11 2022

web one click to convert solid components into point mass with automatic calculations and assignments of total mass center of gravity location and moment of inertia contains source code free download

measuring force on a point mass in ansys mechanical workbench - Aug 17 2022

web ansys mechanical workbench supports addition of a point mass that is associated with one or more faces the point mass will load the associated faces face behavior can be set to deformable or rigid it may be of interest to

**adding a point mass youtube** - May 14 2022

web demonstrates that addition of a point mass and its impact on the modal frequency of a cantilever beam

**measuring point mass force via static harmonic analysis ansys** - Dec 21 2022

web ansys mechanical workbench supports addition of a point mass that is associated with one or more faces the point mass will load the associated faces face behavior can be set to deformable or rigid it may be of interest to measure the forces on the point mass