

Energy stores

- Kinetic energy
- Thermal energy
- Gravitational potential energy
- Elastic potential energy
- Nuclear energy
- Sound energy
- Chemical energy
- Magnetic energy
- Light energy
- Electrostatic energy
- Electrical energy

Work done

is the same thing
as **energy transferred**

Work done can be two things:

1. Work done is when current flows (work is done against the resistance in a circuit)
2. Work done is when a force moves an object

$$\text{Work done (J)} = \text{force (N)} \times \text{distance (m)}$$

Some energy is always dissipated when an energy transfer takes place

e.g. Using a mobile phone

- The mobile phone is the system
- Energy is usefully transferred from the chemical energy store of the battery in the phone
- Some of this energy is dissipated to the thermal energy store of the phone (wasted)

e.g.2. A closed system

- Spoon is dropped in insulated flask of hot soup, which is then sealed → closed system.
- Energy is transferred from thermal energy store of soup to the useless energy store of the spoon, which does make soup slightly cooler.

SYSTEM:

a single object/ group of objects that you're interested in

When a system changes, energy is transferred.

→ It can be transferred into/away from the system, between objects in the system or between different energy stores

EXAMPLE: boiling water in a kettle

- Water is the system
- Heating element in kettle transfers energy to the water's thermal energy store, by heating
- So the kettle heating element and the water are a two-object system

KINETIC

- Moving has energy in its kinetic energy store
- Energy is transferred to this store when the object speeds up
- A faster speed and a higher mass means more kinetic energy is needed

$$\text{Kinetic energy (J)} = \frac{1}{2} \times \text{mass (kg)} \times (\text{speed})^2 \text{ (m/s)}$$

GPE

- Lifting an object in a gravitational field requires work - this causes a transfer of energy to the gravitational potential energy store in the object

$$\text{GPE (J)} = \text{mass (kg)} \times \text{gravitational field strength (N/kg)} \times \text{height (m)}$$

E_p

Stretching/squashing an object can transfer energy to its elastic potential store.

- So long as the limit of proportionality has not been exceeded, the following is

$$\text{EPE} = \frac{1}{2} \times \text{spring constant (N/m)} \times (\text{extension})^2 \text{ (m)}$$

PHYSICS P1

Conservation & dissipation of energy

Closed systems:

systems where matter/energy cannot enter or leave, meaning the net change is always 0

LAW OF CONSERVATION OF ENERGY

Energy can be transferred, but can never be created or destroyed

POWER

Rate of energy transfer
Rate of doing work

A powerful machine is one which transfers a lot of energy in a short space of

$$\text{power (W)} = \frac{\text{work done (J)}}{\text{time (s)}}$$

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Steve Witney

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