

Energy Stores & Systems

A system is an object or group of objects. When a system changes, the way energy is stored also changes. Examples: Ball rolling and hitting a wall- System is moving ball. When it hits the wall (some of) the kinetic energy is transferred as sound. Vehicle slowing down- System is vehicle moving. When it slows down, kinetic transfers to thermal due to friction between wheels and brakes.

Changes in Energy

How to calculate Kinetic Energy:

M-Mass (kg) V-Speed (m/s) KE-Energy (J)

$$KE = \frac{1}{2}mv^2$$

How to calculate Elastic Potential

E_e-Elastic Potential Energy (J) k- Spring Constant (N/m)

E-Extension (m)

$$E_e = \frac{1}{2}ke^2$$

How to calculate Gravitational Potential Energy:

E_p-Gravitational Potential Energy (J) G-Gravitational Field

Strength (N/kg) H-Height (m)

$$E_p = mgh$$

How to calculate Specific Heat Capacity:

ΔE-Change in thermal Energy (J) M-Mass (kg) C-The specific heat

capacity (J/(kg)°C) ΔT-Temperature change (°C)

$$E = mc\Delta T$$

Power

Power is defined as the rate at which energy is transferred or the rate at which work is done.

$$Power = \frac{\text{energy transferred}}{\text{time}} = \frac{\text{work done}}{\text{time}} = P = \frac{E}{t} = \frac{W}{t}$$

The Conservation of Energy

Energy can be transferred usefully, stored or dissipated, but cannot be created or destroyed.

Example of energy transfers in a closed system: When a skydiver jumps out of a plane, he begins to lose gravitational potential energy as his height decreases and he gains kinetic energy as his speed increases. Some of the gravitational potential energy is transferred to the air particles and is stored as internal energy.

Example of energy transfers where energy is wasted: When you use a phone, energy is usefully transferred from the chemical energy store of the battery in the phone.

However, some of this energy is dissipated in this transfer to the thermal energy store of the phone. Unwanted energy transfers can be reduced through lubrication and thermal insulation.

PRACTICAL

Investigating Specific Heat Capacity

- To investigate a solid material, you'll need a block of the material with two holes in it for the heater and thermometer to go into.
- Measure the mass of the block, then wrap it in an insulating layer to reduce the energy transferred from the block to the surroundings. Insert the heater and thermometer and heater.
- Measure the initial temperature of the block and set the potential difference, V, of the power supply to be 10V. Turn on the power supply and start a stopwatch.
- When you turn on the power, the current in the circuit does work on the heater, transferring energy electrically from the power supply to the heater's thermal energy store. This energy is then transferred to the material's thermal energy store by heating, causing the material's temperature to increase.
- As the block heats up, use the thermometer to measure its temperature. Keep an eye on the ammeter- the current through the circuit shouldn't change.
- When you've collected enough readings, turn off the power supply.

Combined Science Cie Igcse Revision Notes

DP Hallahan



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