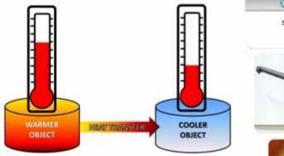
Energy Transfers 2

Key words	Definitions	Key diagra
Conduction	Thermal energy passed through a solid. Energy passed from particle to particle	Heat transfer is the transfer energy from one source to a wanner outer transfer three primary ways: Conduc and Radiation
Conductor	A material that allows energy to pass easily through it	
Convection	Thermal energy is passed through a fluid, liquid or gas. Warm particles are less dense and rise. Cool particles are more dense and fall	
Energy Efficiency	Describes how much energy in a system is useful and how much is wasted	
Energy transfer	The movement of energy from one type of store to another	
Radiation	Thermal energy is passed as a wave of Infrared Radiation. No particles are needed.	
Useful energy	The energy transferred in to the energy you want. E.g. light from a lightbulb	

am – Heat transfer

of heat another.



can occur in uction, Convection



Key knowledge

Thermal energy always flows from high to low (hot \rightarrow cold)

Internal energy is the total amount of thermal energy an object has (Joules) The energy of every atom added

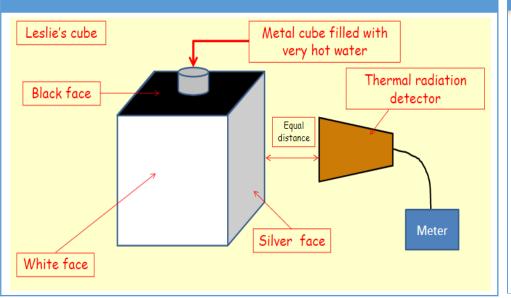
Temperature is the average energy of the atoms in an object (°C)

Air is a poor conductor of thermal energy

Dark colours are good emitters and poor absorbers of thermal energy

Light colours are poor emitters and poor absorbers of thermal energy

Practical – Investigating Radiation



Key process – Conduction, Convection and Radiation

