

P2 energy transfers (kerboodle)	Recall answers
1. What does the law of conservation of energy state?	Energy cannot be created nor destroyed.
2. What is 'wasted' energy?	Energy that is stored in a less useful way.
3. What does it mean if a material has high thermal conductivity?	It will allow energy to transfer quickly across the material by conduction.
4. List the factors that will affect the temperature of a material as it is heated.	Mass of material Energy supplied to the material Type of material
5. What do we mean by 'specific heat capacity' of a material?	It is the amount of energy supplied to the material to raise 1kg of it by 1°C
6. How does loft insulation prevent energy loss from our homes?	Fibre glass is a poor conductor. Air trapped between fibres is a poor conductor.
7. How does cavity wall insulation prevent energy loss from our homes?	The insulation is a worse conductor than the air it replaces. Bubbles of air prevent conduction also.
8. How does double glazing prevent energy loss from our homes?	Thick glass has low thermal conductivity. Air trapped between the layers is a poor conductor. If there is a vacuum, this will prevent convection too.
9. Why should we place aluminium foil behind radiators?	It reflects heat radiation and reduces the loss of energy from our homes.