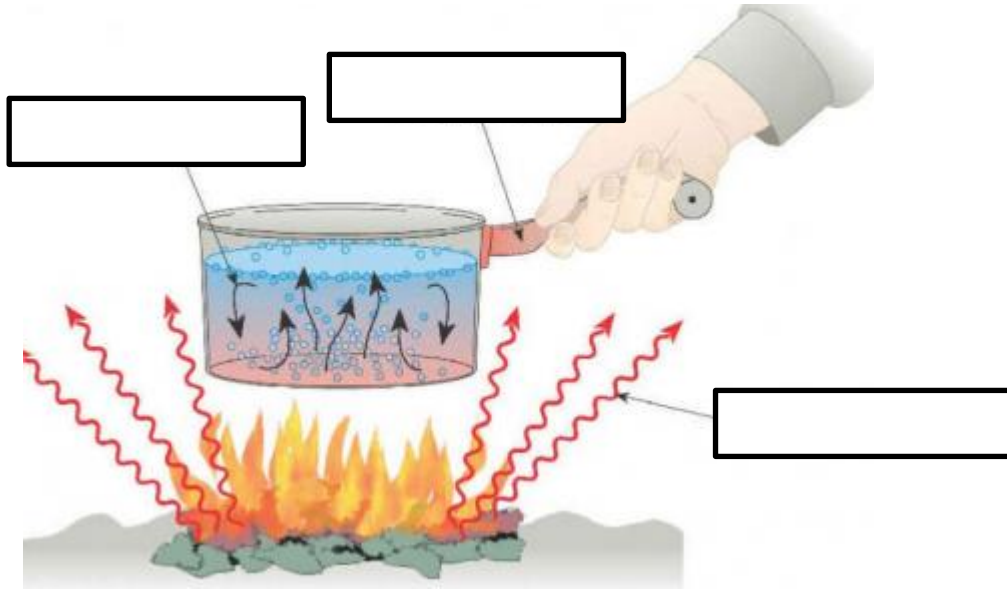


Method	State	Description
Conduction		
Convection		
Radiation		



1 Draw lines to match up the sentence halves below.

Walls can be built of materials ...

... reduces the rate at which energy is transferred.

The **thermal conductivity** of a material ...

... is a good **thermal insulator**.

A material with a low thermal conductivity ...

... with better insulating properties.

Using thicker materials ...

... is a measure of how well it transfers energy by heating.

S1 Explain two ways in which walls can be built to keep a house warmer.

2 Complete these sentences using words from the box. You can use each word once, more than once or not at all.

We have duvets or _____ on our beds to keep us _____ at night. They _____ the energy transfer from our bodies to the rest of the room.

These materials contain _____. Air is a _____ **thermal conductor** (it has _____ thermal conductivity) and it cannot transfer energy by _____ when it cannot move.

Fridges and freezers keep food _____. They are built with walls and doors made from _____ materials. This _____ reduces the transfer of energy from the _____ surroundings into the _____ food.

blankets	cold	conducting	conduction	convection	cool	cooler	good
high	increase	increases	insulating	low	poor	radiation	reduce
		reduces	trapped air	warm	warmer		