

Conduction and Convection

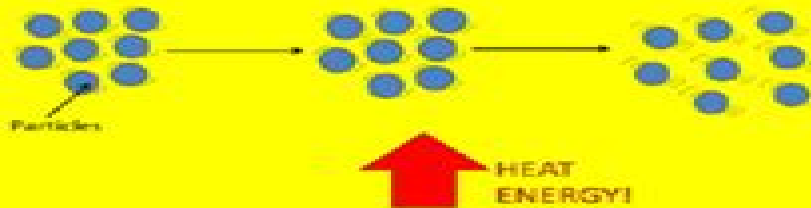
Convection Currents

Definition

Convection is the transfer of heat in liquids and gases.

The hotter the liquid/gas the particles move faster and spread out. This means the gas/liquid becomes less dense.

The less dense gas/liquid rises and the more dense gas/liquid sinks.



Because the particles have to rise and fall for convection to occur it can only happen in liquids and gases, where the particles are free to move.



Model Question (3)

Explain how heat is transferred by the process of convection from the gas flame at the bottom of the oven to the potatoes at the top of the oven.

Model Answer

The air particles are heated by the gas flame and gain energy. This causes the particles to move faster and spread out. Because the particles are spread out the hot air becomes less dense and rises.



Real world Examples

A lava lamp - The light bulb heats the wax causing it heat up and rise. The wax cools at the top and sinks again.

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Conduction and Convection

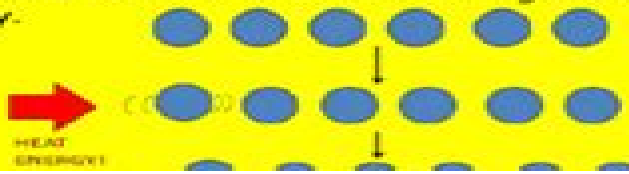
Conduction

Definition

Conduction is how heat energy is transferred through solids when they are heated. Heat energy can also be passed from one solid to another by conduction.

Conductors are materials which transfer energy more easily. Insulators are materials which don't transfer heat as well for example, Glass and plastics.

As the conductor is heated the atoms gain more energy and vibrate more. This causes them to collide with other atoms transferring the heat energy.



Model Question

Explain in terms of particles how heat is transferred through the base of the pan?



Model Answer

Atoms in the base of the saucepan gain thermal energy from the hob. This causes the atoms in the saucepan to vibrate. Due to the vibration the atoms will collide with other atoms and pass on their thermal energy.

Why are metals good conductors?

In a metal lattice electrons from the outer shell are freed from their atoms. This causes those atoms to become positively charged ions. As the metal is heated, these ions vibrate more, passing on their energy to the electrons, which then move through the metal, carrying the heat energy.

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