Methods of Heat Transfer

CONDUCTION

Energy is passed on through the vibrations of solids. While the particles themselves do not move because they are tightly packed they vibrate, causing the heat to pass from end to another. Let us take a metal pole as an example, when heat is applied at one end after some time has passed the other end of the pole will be heated as well. This is conduction.

CONVECTION

Heat traveling through liquids and gases is convection. The particles in liquids and gases are able to move about. Particles that have been heated will rise to the top and the cold particles will fall.

RADIATION

The travelling of heat energy across a vacuum is done by radiation. Radiation does not require a material medium. Most of the sun's heat reaches us by means of radiation.