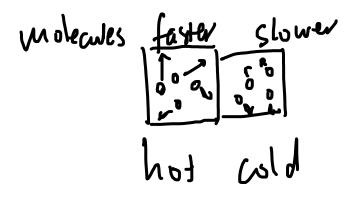
show understanding that thermal energy is transferred from a region of higher temperature to a region of lower temperature

Dr K M Hock Thermal Energy Transfer Conduction heat flow flow stops hot cold ΓJ Same TT Convection 2010 vot ho radiation infra red fire Some pogo Warms

Always from hot to cold

Conduction

Dr K M Hock

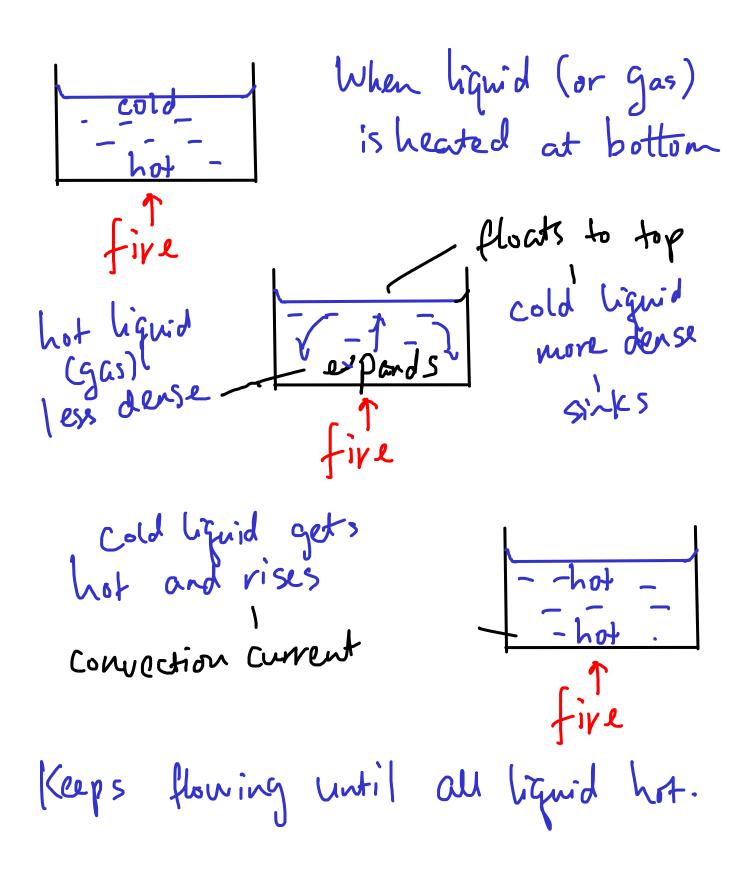


At contact, faste molecules collide with slower_

Molecules in both body - same average KE heat transfer stops Same

Convection

Dr K M Hock



explain that energy transfer of a body by radiation does not require a material medium and the rate of energy transfer is affected by: (i) colour and texture of the surface (ii) surface temperature (iii) surface area

Radiation Dr K M Hock - infra red radiation - Speed of light - no medium needed - can go thru' Vacuum black, rough absorbes heat faster also radiates heat fire 7 higher T L'net heat gaine fire 7 ~ (()) ~ smaller area

absorbs heat glower

apply the concept of thermal energy transfer to everyday applications

