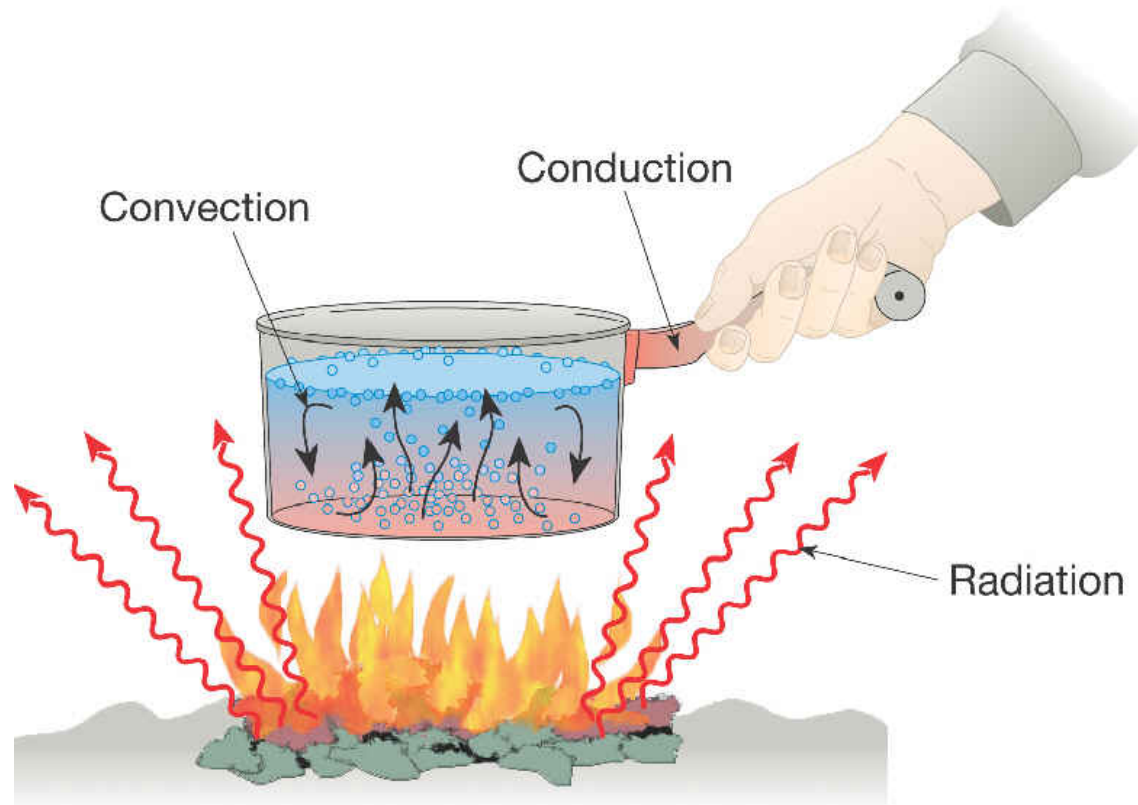


# Transfer and Conservation of Heat Energy Vocabulary Rivet



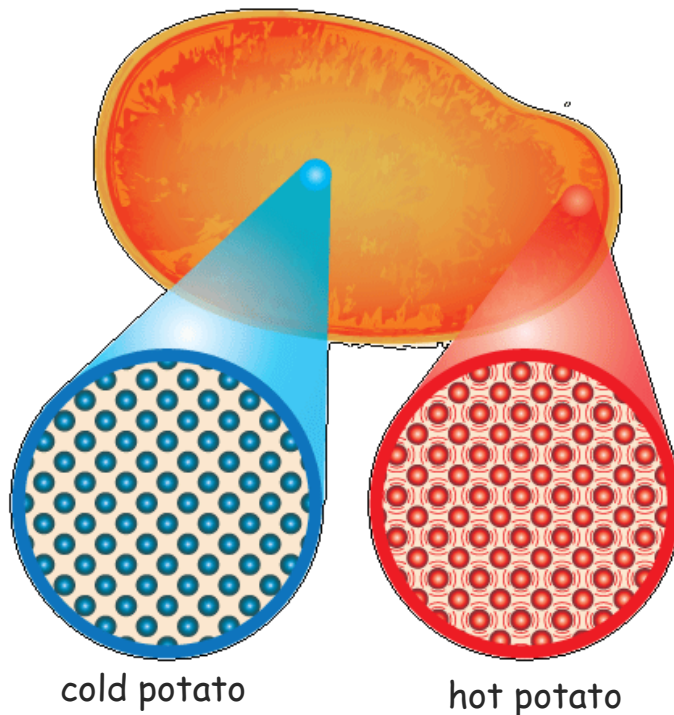
Particle

A very small piece of something



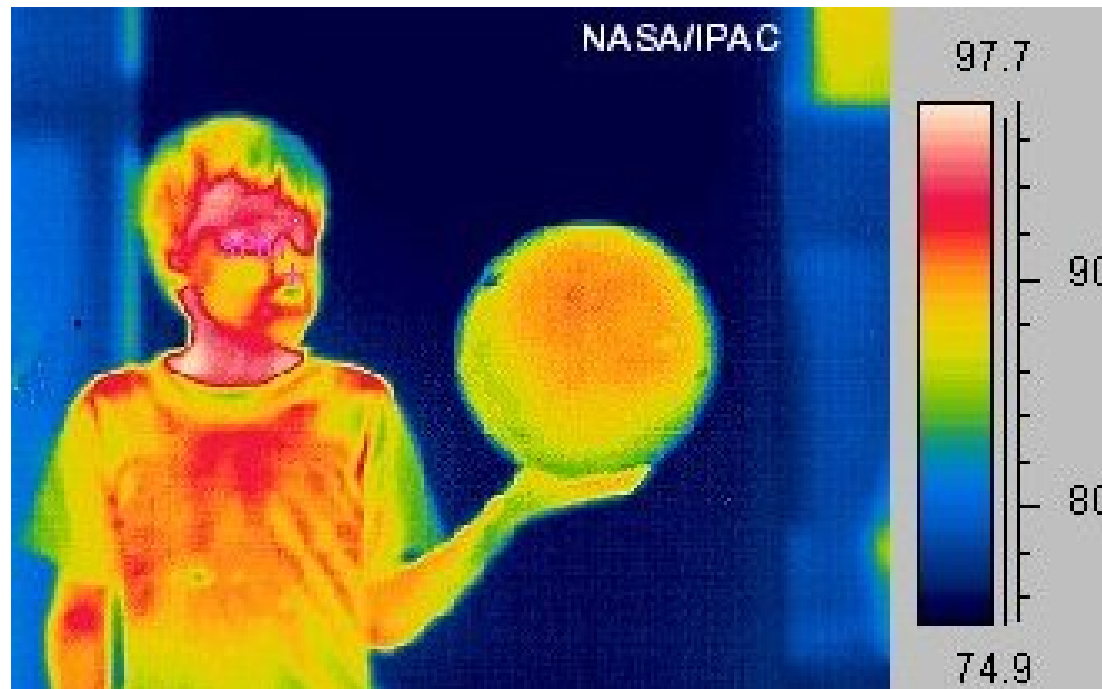
# Heat

A form of energy associated with the movement <sup>of</sup> molecules in any substance



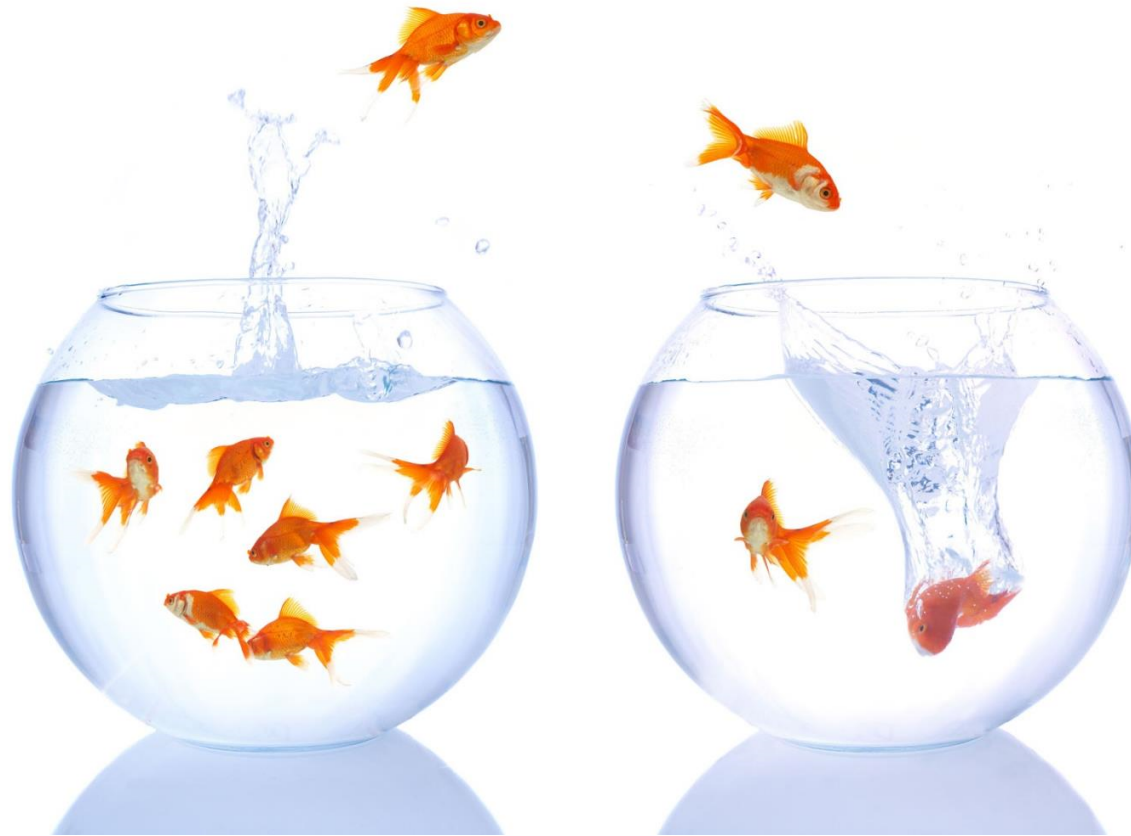
# Thermal Energy (inside)

The internal energy a substance has;  
the energy that comes from heat



# Transfer

To move from one place to another



# C O N D U C T I O N

Transfer of heat through solids by direct or indirect contact

## Conduction

Energy is transferred by direct contact.

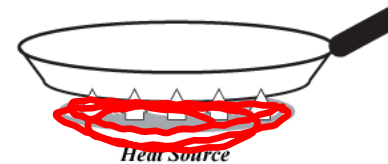


Spoon in hot coffee getting hotter to the end of the spoon



# Direct contact

When 2 or more substances are touching each other



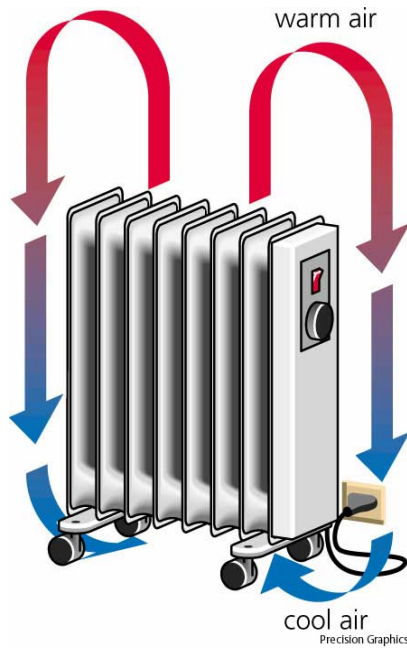
# Indirect contact

When 2 or more substances are close to but not touching each other

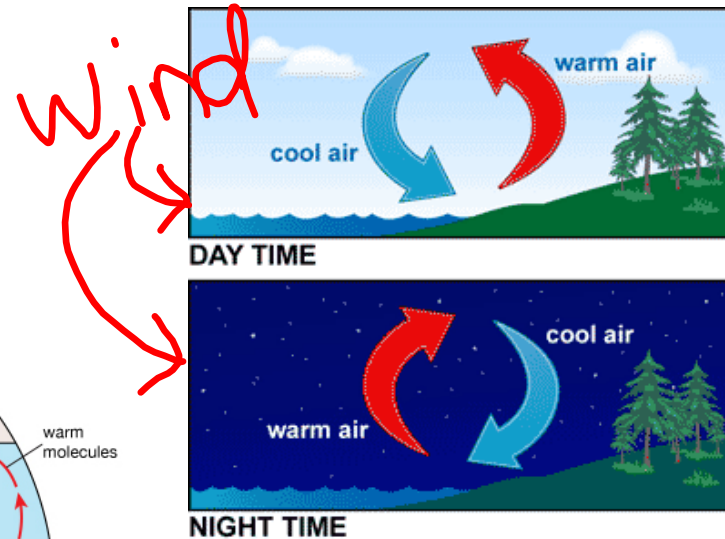
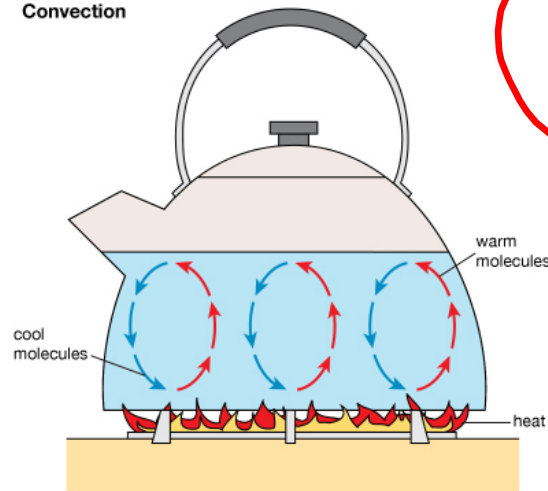


# Convection

Heat transfer through liquids and gases and moves in currents



Convection

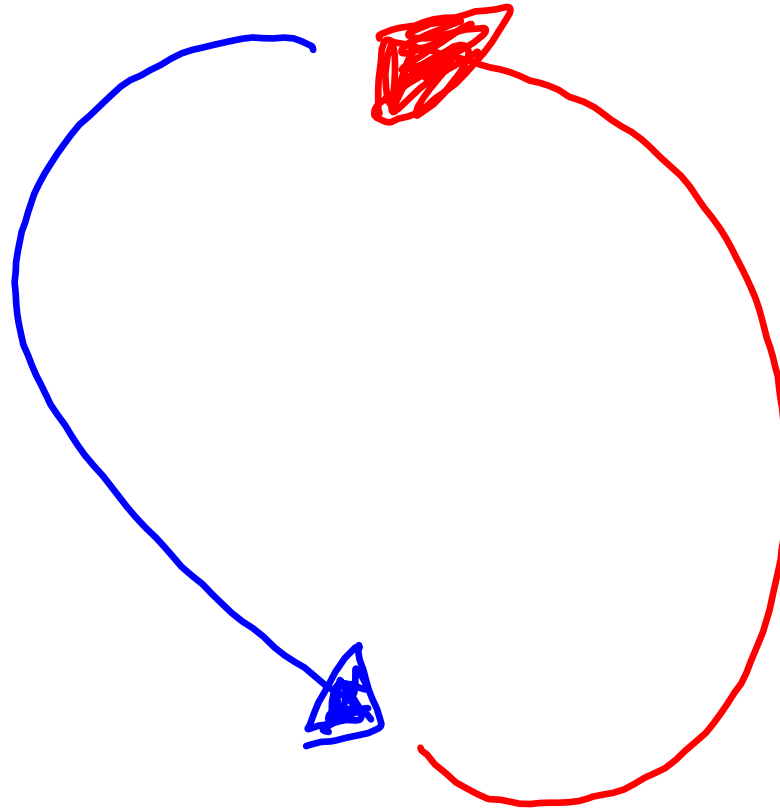


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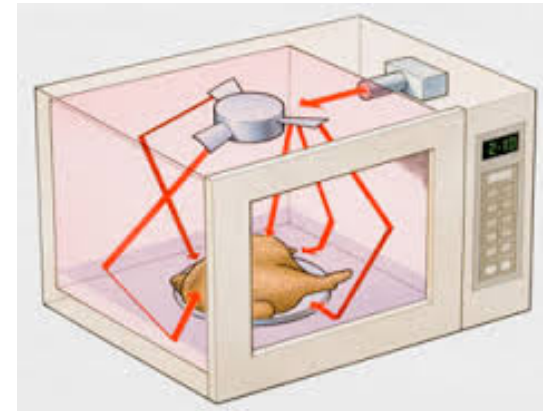
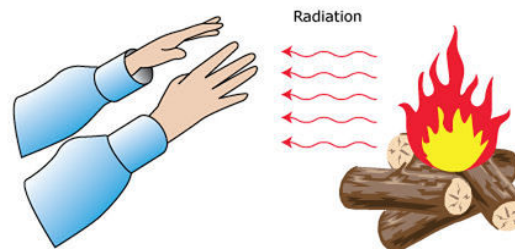
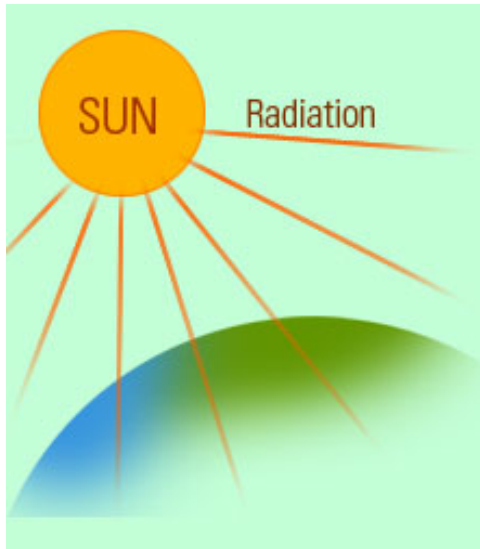
# Convection cell

Warm air/water rises and cool air/  
water takes its place; creates global  
winds and ocean currents



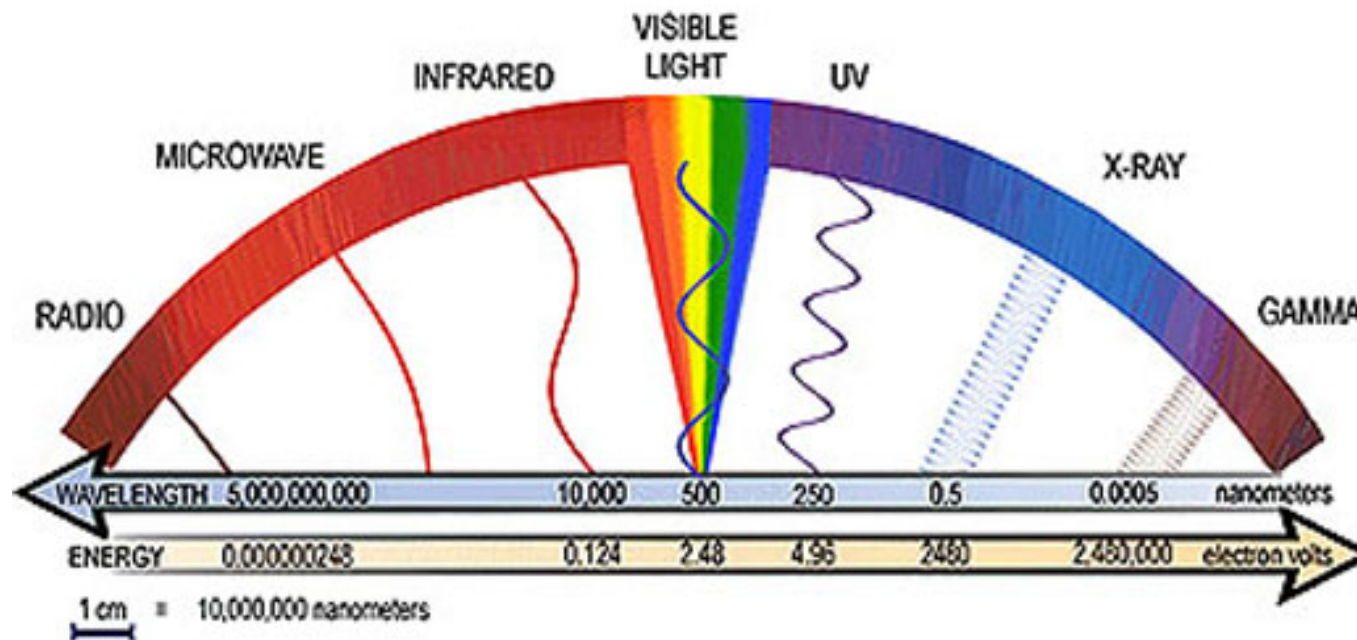
# Radiation

Heat transfer through space of electromagnetic waves



# Electromagnetic waves

Waves that can travel through the emptiness of space



# Conductor

Substances that heat can easily pass through



# Insulator

Substances that heat does  
NOT easily pass through

