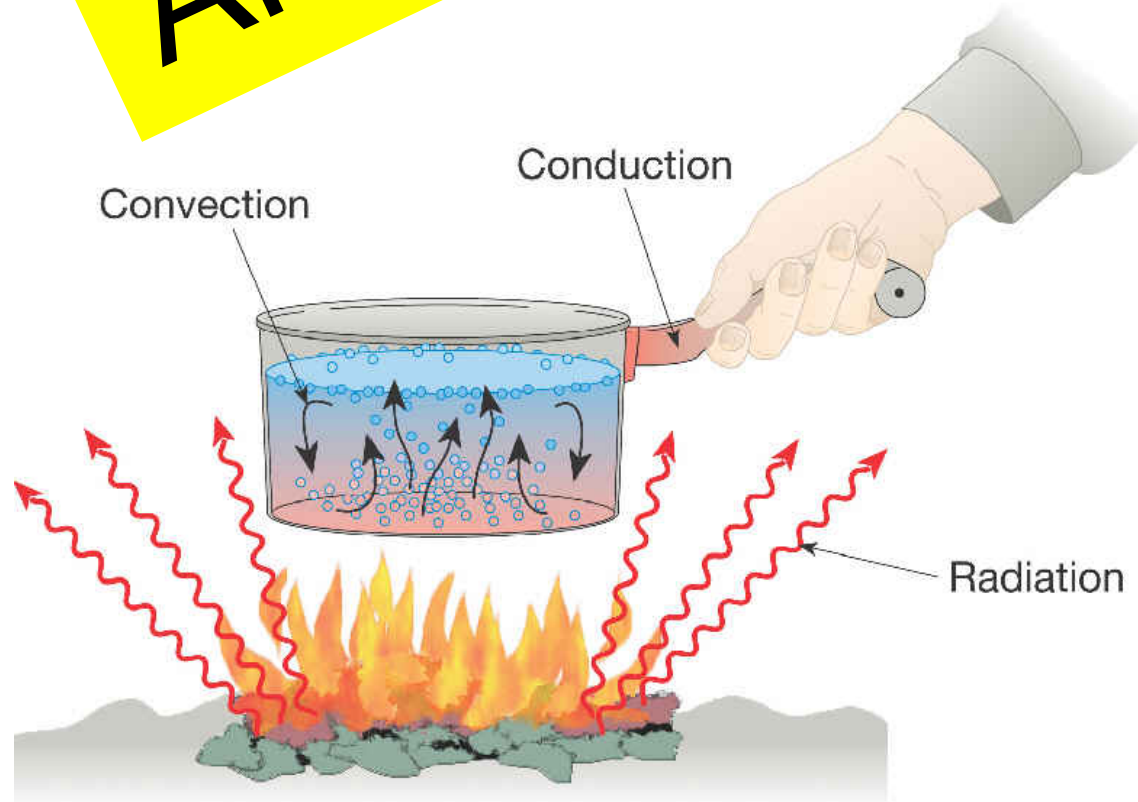


Transfer and Conservation of Heat Energy

Primary Rivet

ANSWERS!!!



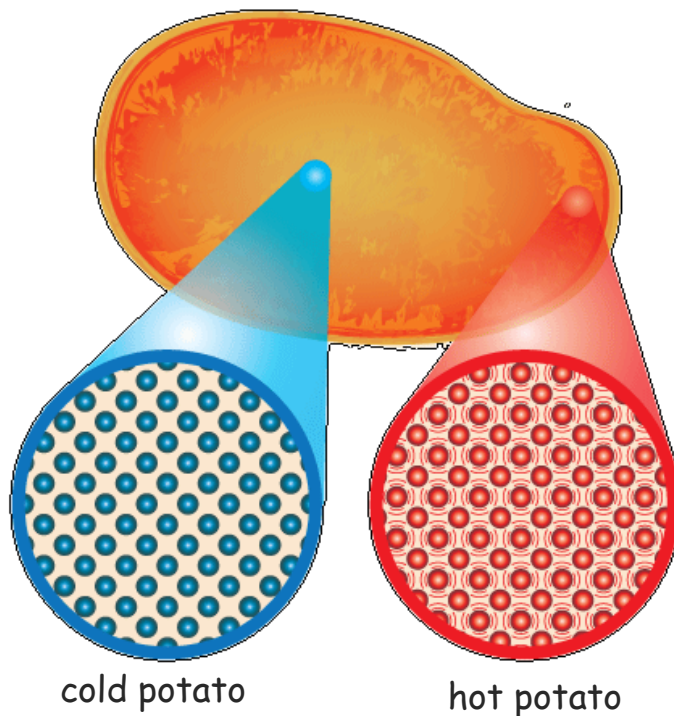
P a r t i c l e

A very small piece of something



Heat

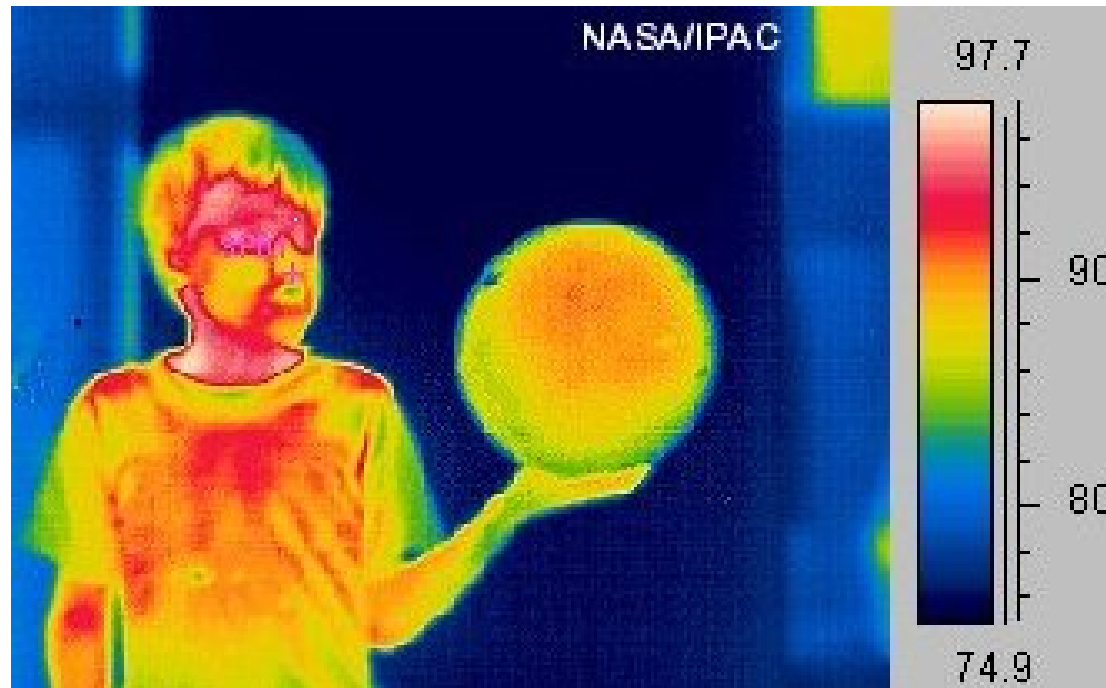
A form of energy associated with the movement ^{of} molecules in any substance



Thermal Energy

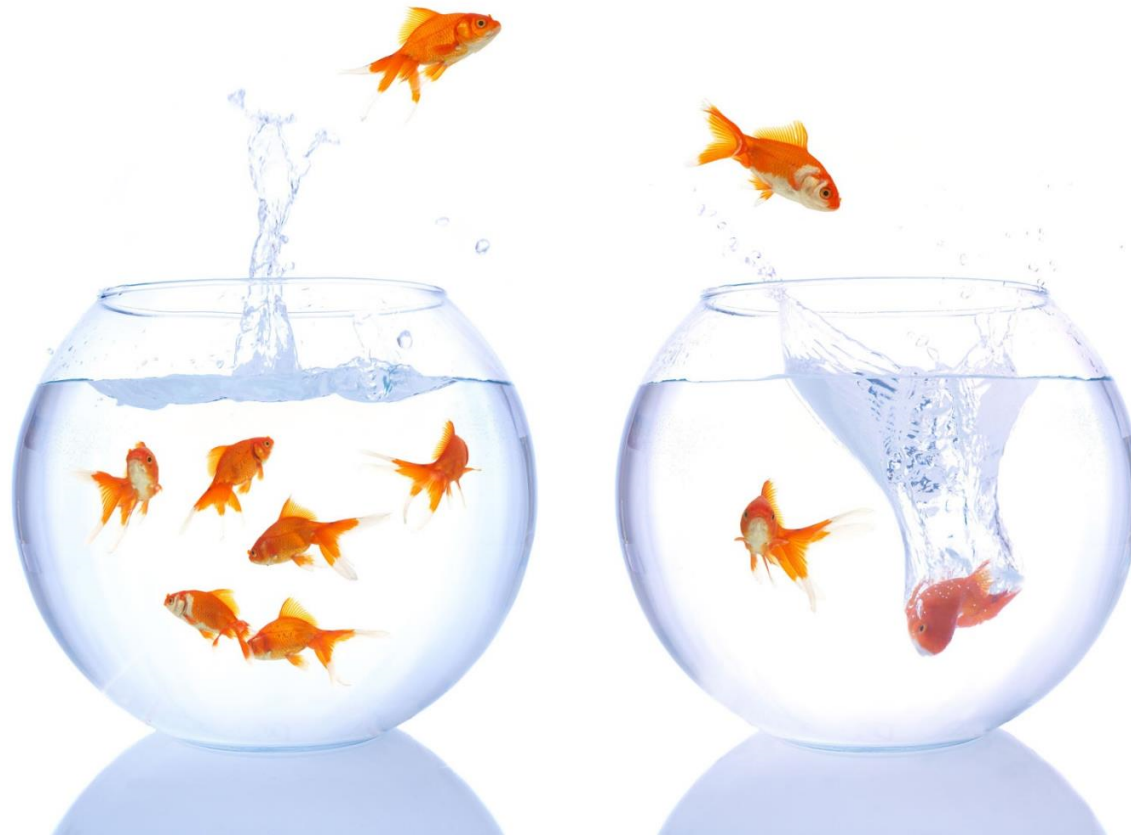
(inside)

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



Transfer

To move from one place to another



CONDUCTION

Transfer of heat through solids by direct or indirect contact

Conduction

Energy is transferred by direct contact.

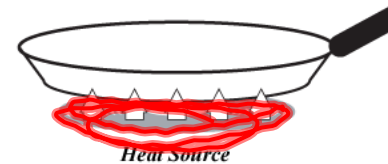


Spoon in hot coffee getting hotter to the end of the spoon



Direct contact

When 2 or more substances are touching each other



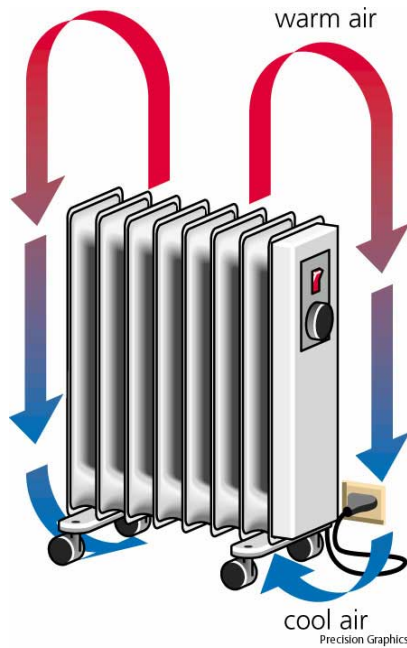
Indirect contact

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

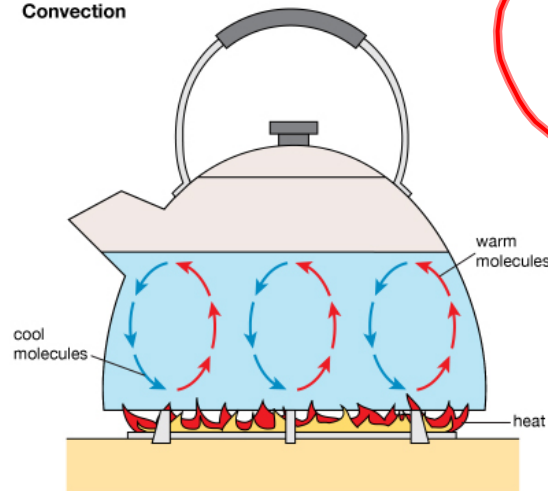


Convection

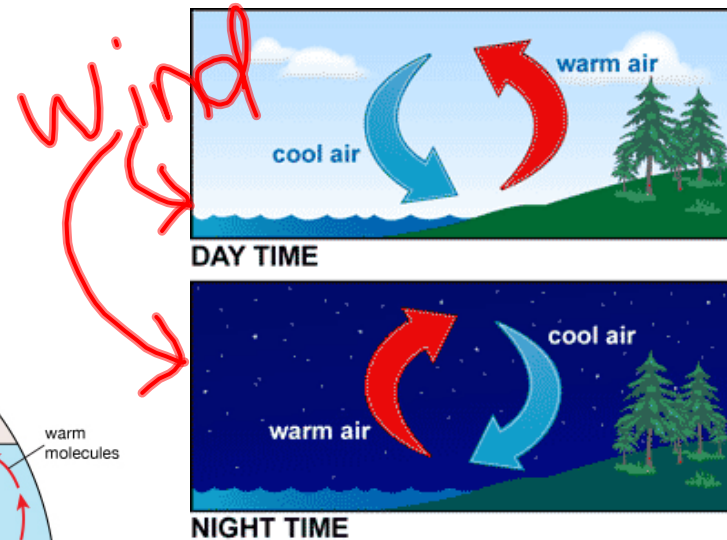
Heat transfer through liquids and gases and moves in currents



Convection

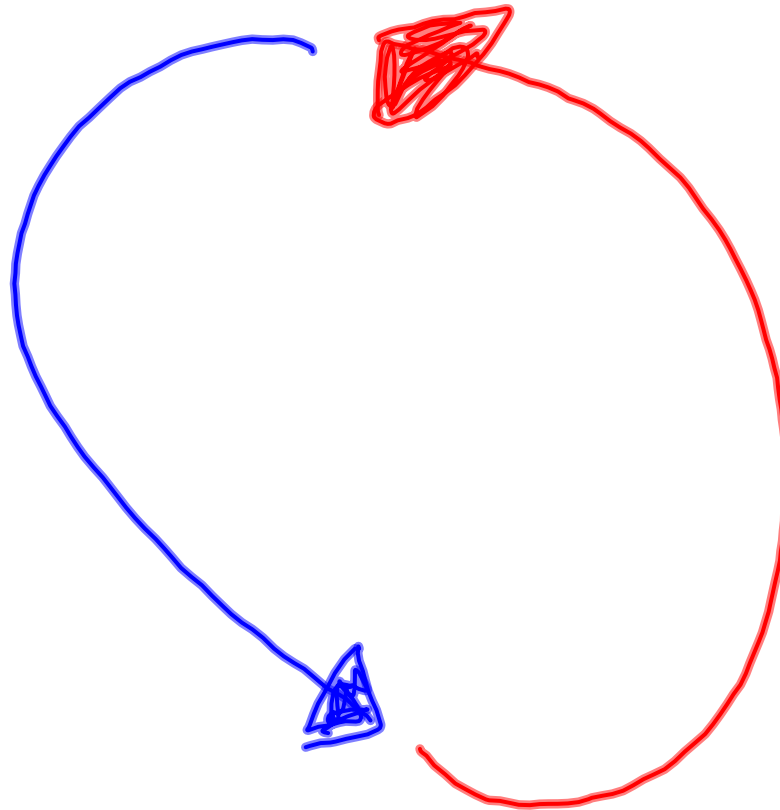


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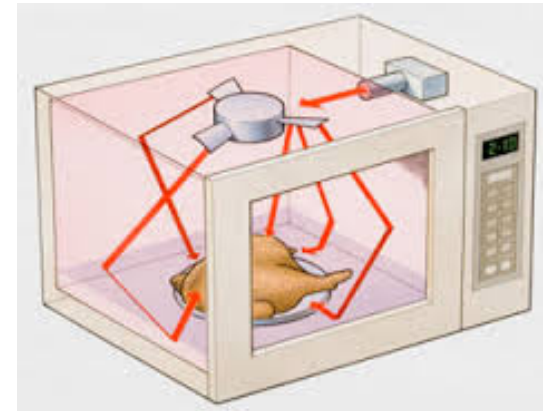
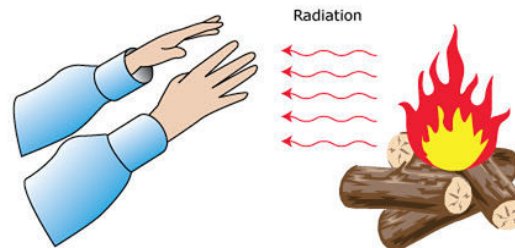
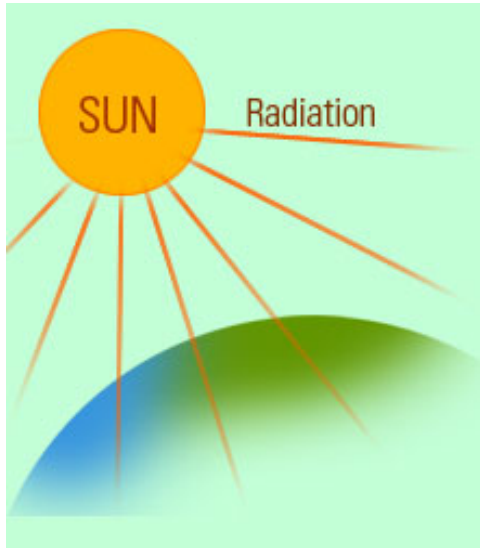
Convection cell

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



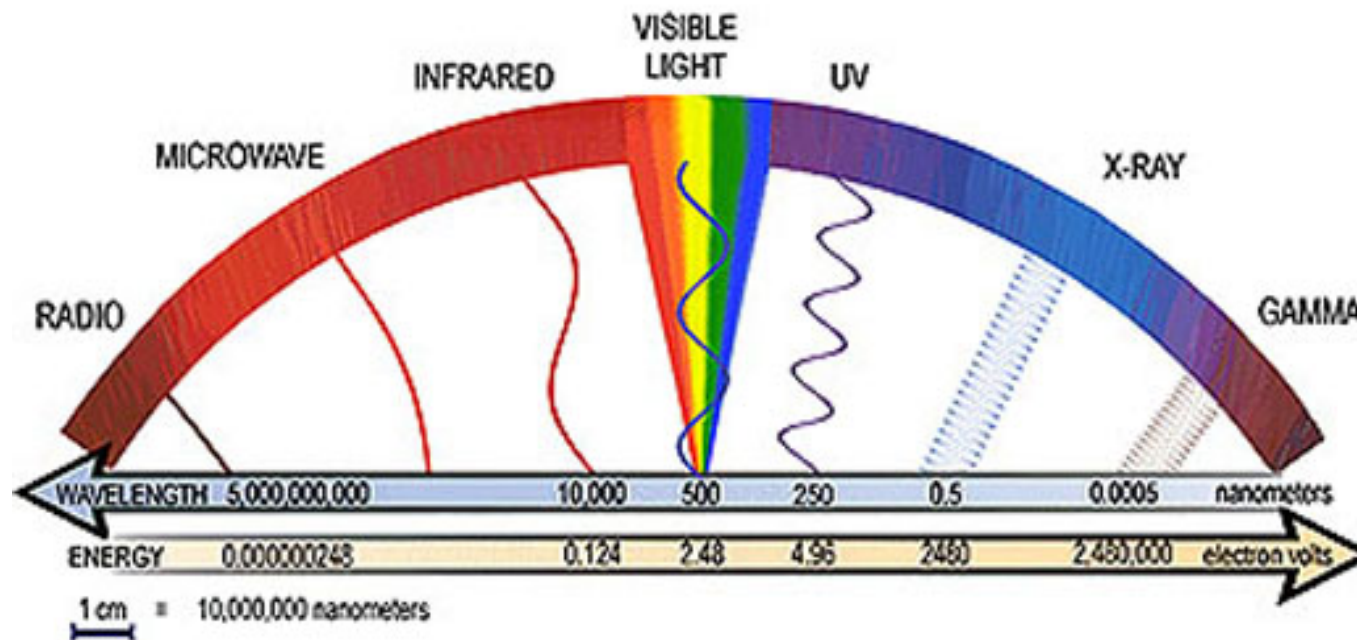
Radiation

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



