













HEAT – Heat is the flow of energy due to temperature differences.

vvi for state pcs 50 degree celsius 20 degree celsius body HEAT

rapidly heat flow unless they became equal

TEMPERATURE

person temper ature now they became thermal equilibrium

when both temperature equal

A form of energy measured in

A form of kinetic energy of particles

calorie or joule

measured in C, K, F

movement of particle is

Any object above temperature

Zero degree kelvin has heat

energy

cold and hot terms are relative







in compare b/w a and b a is colder than b in compare b/w b and c b is colder than c





The avg kinetic energy of all paricles in the object

The atoms mass and speed decides temperature of the object

Extreamly important formula

FROM THIS FORMULA WE CAN CHANGE C-F,F-R,R-K

$$\frac{C}{5} = \frac{F - 32}{9} = \frac{\frac{R}{R}}{4} = \frac{K - 273}{5}$$

Q. ON WHICH VALUE F AND C SHOW SAME VALUE.

WE HAVE TO PUT

X/5=X-32/9 OR FIND VALUE OF X

Forhenheit---water freezes at 32 degree F and boils at 212 degree F

FREEZE at 0'c

boil at 100'c

Thermometer can measure the temperature because the substance of the liquid inside it expands equally and contracts equally in thermometer we use mercury(metal)

in european cold countries, in thermometer use alchoal because alchoal not freeze in -50'c





All gases, liquids and solids expand when temperature increases

That's why bridges are built with short segments with small breaks to allow for expansion.

Joints such as this one are used in

Bridges to accommodate thermal

Expansion





Heat is measured by the unit of calorie and joule



m-mass, s-specific heat, dt-delta t (temperature difference)

specific heat of water is 1

1 calorie = the amount of heat required to increase the temperature of 1 gm of water by 1 degree celceus.

1 calorie=4.18 joule





Specific heat --- the amount of heat required to increase the temperature of any substance by 1 degree celceus.

Unit -cal/gm degree celceus

q=msdt

 $\int_{\text{cal/g c} = \text{cal/g c}}^{\text{q/mdt=s}}$





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