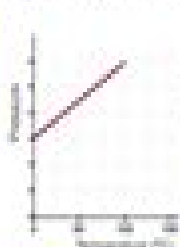
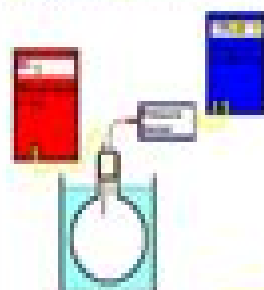


GAS LAWS SUMMARY

1. Pressure and Temperature (Volume constant, mass constant)



Pressure is directly proportional to Temperature

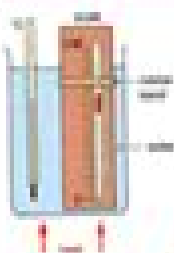
$$\frac{P_1}{T_1} = \frac{P_2}{T_2}$$

Extra Notes

Temp. ↑ particles have greater speed, and greater KE

Particles collide with container walls more often and with greater force. ∴ since P ∝ F/A, Pressure ↑

2. Volume and Temperature (Pressure constant, mass constant)



Volume is directly proportional to Temperature

$$\frac{V_1}{T_1} = \frac{V_2}{T_2}$$

Extra Notes

Volume ↑ particles collide with container walls more often

Small force increases. ∴ since P ∝ F/A, Pressure ↑

3. Pressure and Volume (Temperature constant, mass constant)



$$P_1 V_1 = P_2 V_2$$

Extra Notes

Volume ↑ particles collide with container walls more often

Small force increases. ∴ since P ∝ F/A, Pressure ↑

Pressure is the force per unit area

$$P = \frac{F}{A}$$

p = the pressure (N/m²) F = the force (N) A = the area (m²)

Combined Gas Equation

$$\frac{P}{T} = \text{constant}$$

$$\frac{P_1 V_1}{T_1} = \frac{P_2 V_2}{T_2}$$

Degrees Celsius to Kelvin: + 273

Kelvin to Degrees Celsius: - 273

Absolute Zero: 0K = 0°C

 There is no negative on the Kelvin scale
Temperature is a measure of the mean kinetic energy of particles

SPECIFIC HEAT CAPACITY (c) Heat energy required to raise the temperature of 1 kg of a substance by 1°C

$$E_h = c m \Delta T$$

 E_h: heat energy (J)

 c: specific heat capacity (J kg⁻¹ °C⁻¹)

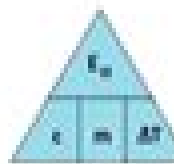
m: mass (kg)

ΔT: change in Temperature (°C)

 Specific heat capacity values are different for all materials
- values found in data sheet

E = P t can be used to find heat energy supplied by appliances

Heat energy will usually be lost to the surroundings - not all will be transferred to the substance being heated



Low specific heat capacity -

not much energy to heat (heats up quickly for constant power) but loses heat quickly

High specific heat capacity -

lots of energy to heat (heats up slowly for constant power) but loses heat slowly (retains heat better)

Specific Latent Heat (L) Heat energy required to change the state of 1 kg of a substance at the same temperature

$$E_h = m L$$

 E_h: heat energy (J)

m: mass (kg)

L: specific latent heat of fusion / vaporisation

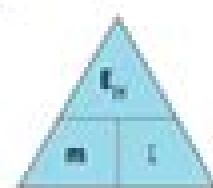
Specific latent heat values are different for all materials - values found in data sheet

 Specific Latent heat of fusion, L_f:

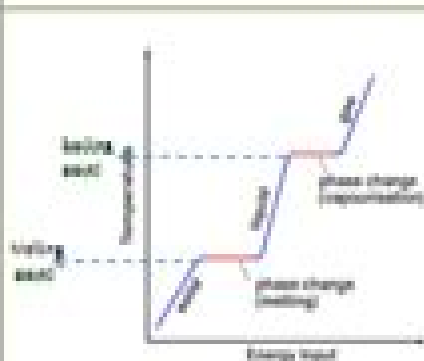
Solid → Liquid

 Specific Latent heat of vaporisation, L_v:

Liquid → Gas



The same material requires different quantities of heat to change the state of unit mass from solid to liquid (fusion) and to change the state of unit mass from liquid to gas (vaporisation).



During change of state

- temperature remains constant

For change of temperature:

$$E_h = c m \Delta T$$

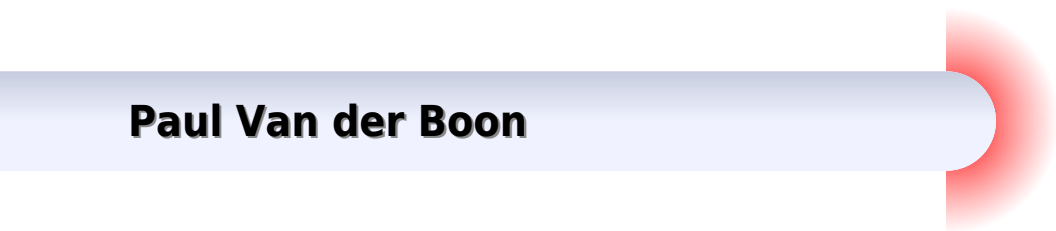
For change of state:

$$E_h = m L$$

"specific heat" = per kg diagram

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