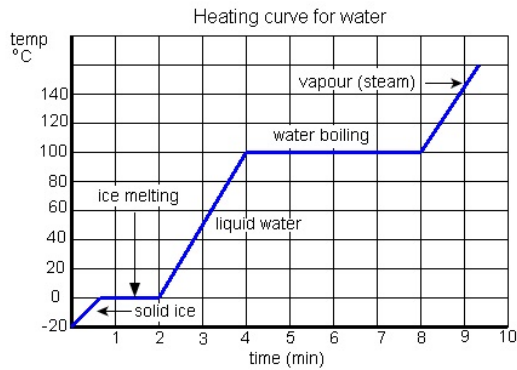


Thermal Physics

1 Differences between heat and temperature

	Heat	Temperature
Definition	Thermal energy(transferred from hot to cooler places)	A comparative measure of how hot something is
Unit	Joule	Kelvin
Measured using	Joulemeter	Thermometer

2 Graph of heating water



3 Specific heat capacity

Specific heat capacity - The energy needed to raise the temperature of 1kg of a material by 1K

$$c = \frac{Q}{m\Delta\theta}$$

c=Specific heat capacity - $Jkg^{-1} ^\circ C$

m=Mass - kg

$\Delta\theta$ = Temperature change - $^\circ C$

Q = Heat energy - J

3.1 Latent heat

Specific latent heat of fusion, L_f $Q = mL_f$

The energy needed to change 1kg of a solid to a liquid without a temperature change

Specific latent heat of vaporisation, L_v $Q = mL_v$

The energy needed to change 1kg of a liquid to a vapour without a temperature change