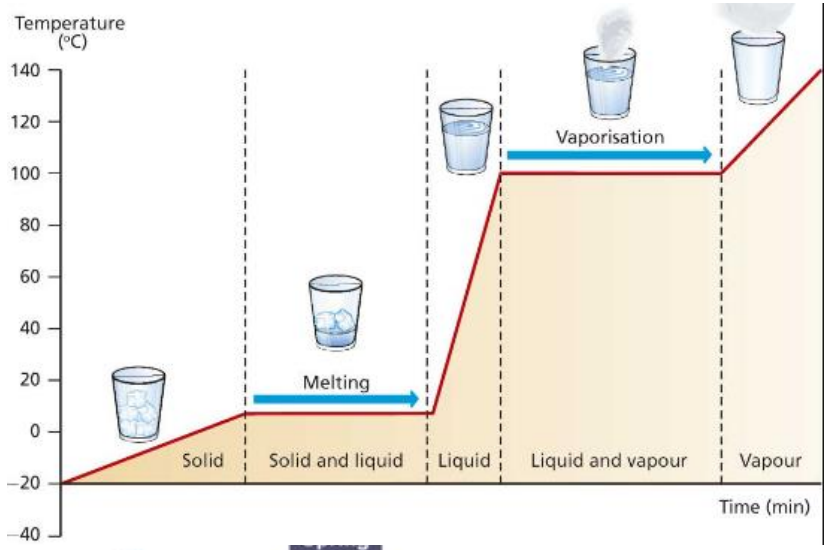
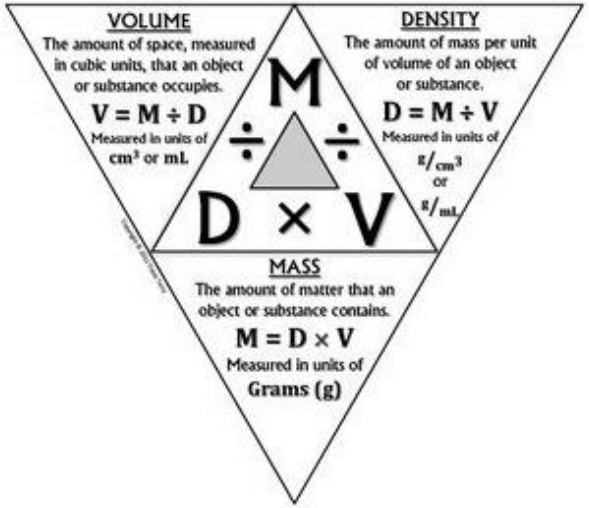
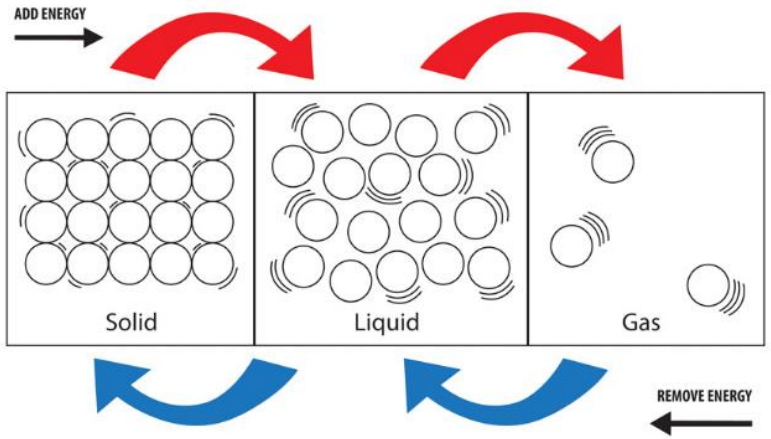
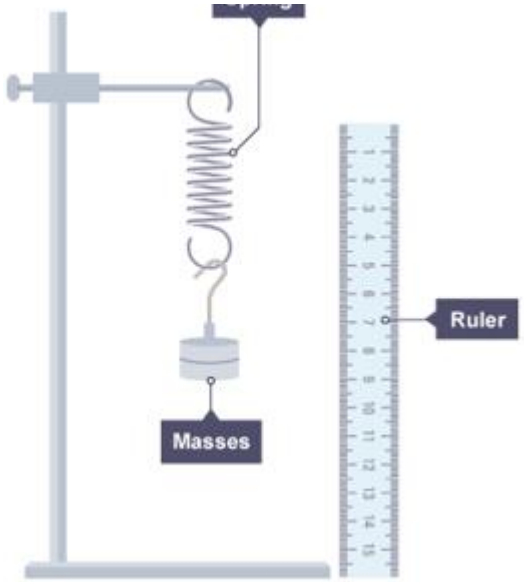
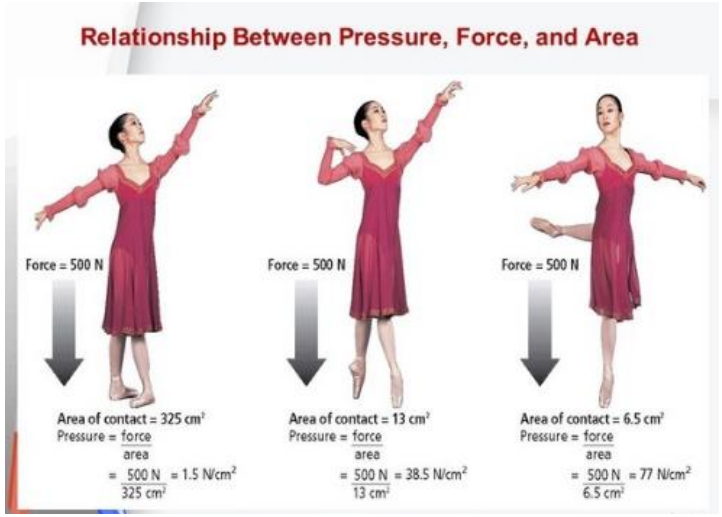
P6 - Knowledge Organiser – Matter

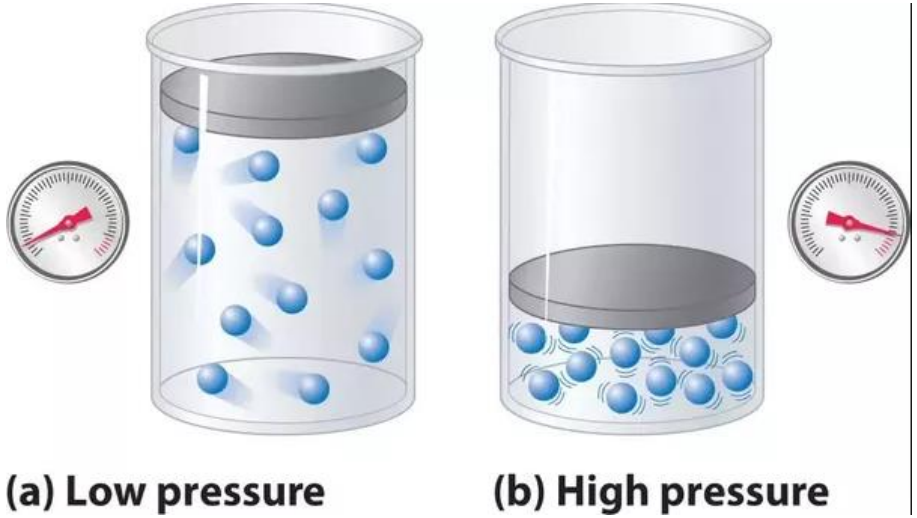












$F = k \times e$

Force = spring constant x extension

$E_e = \frac{1}{2}ke^2$

Elastic potential energy = 0.5 x spring constant x extension^2

$P = F/A$

Pressure = Force / Area

Energy (J) = Mass (Kg) x Specific Heat capacity x Change in Temp (°C)

$E = m \times c \times \theta$

Energy (J)
Mass (Kg)
Specific Heat Capacity (J/Kg°C)
Change in Temp (°C)

Specific Heat Capacities

- **Aluminium 0.9**
- **Copper 0.39**
- **Lead 0.13**
- **Ethanol 2.44.**
- **Water 4.18**