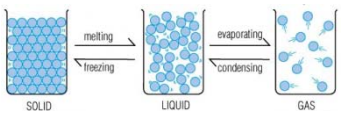
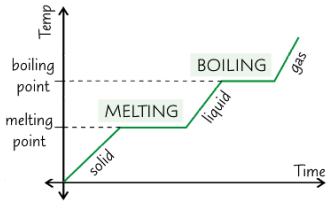
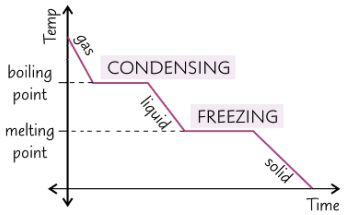
P3 Particle model AQA Trilogy	Write the equation used to calculate density	A cube has edges of length 1.5cm and an average density of 3500kg/m^2 What is its mass? Check your units!	**RPA 17: Density** Describe how to find the density of an irregularly shaped object
Draw particle diagrams for: solid liquid gas	Describe how mass is conserved as a substance changes state from solid→ liquid → gas 	Write the equation for working out change in thermal energy	Calculate the change in thermal energy when 2kg of water is heated from 20°C to 80°C
Define the terms: internal energy Specific heat capacity Specific latent heat	Explain why changing the temperature of a fixed volume of gas, changes the pressure.	Write the equation for working out energy for a changing state	The specific latent heat of vaporisation for water (boiling) is 2260000 J/kg. How much energy is needed to completely boil 1.50kg of water at 100°C
Describe the heating graph 	Describe the cooling graph 	Explain why there are flat parts on the heating and cooling graphs	Describe the movement of particles in a gas Pressure and volume are inversely proportional. That means that at volume goes up pressure goes _____