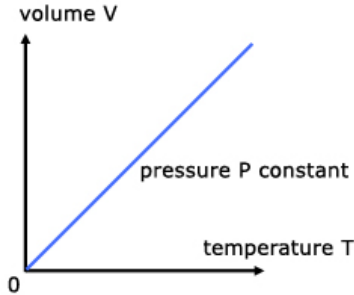


P6 Molecules and matter revision questions

1	How is the arrangement of particles in a liquid different to that of a solid?		
2	What is meant by the conservation of mass when a solid melts or a liquid boils?		
3	What happens to the particles in a solid if it's temperature is decreased ?		
4	What word describes the change of state when a gas turns to a liquid ?		
5	What word describes the change of state when a liquid turns to a solid ?		
6	How is it possible to tell if a change of state is taking place by using a thermometer ?		
7	What is measured by the specific latent heat of vaporisation of water and what units is it measured in ?		
8	Why does the temperature of the air increase when snow forms ?		
9	If the specific latent heat of fusion of water is 332J/g. How much energy would it take to melt 2kg of ice ?		
10	What evidence is there for the random motion of particles ?		
11	What three bits of equipment would be needed to measure the density of an irregular solid ?		
12	A cube measuring 2 cm ³ has a mass of 50g. Calculate the density of this material.		
13	Convert 25 ⁰ C to degrees kelvin.		
14	What will happen to the pressure of a gas if it is compressed to a quarter of it's original volume ?		
15	Explain using particles why the pressure of a gas will increase with temperature.	16	<p>What would happen to a balloon placed in a refrigerator ?</p>  <p>What would the temperature need to be measured in for this graph to be plotted ?</p>
17	<p>Use $P/T = \text{constant}$:</p> <p>A car tyre is inflated to 2.2 bar on a cold day (to 5⁰C). What would the pressure be once the temperature increased to 25⁰C ?</p> <p>What assumption have you made in this calculation ?</p>		