You need to know the content of this sheet. 100%

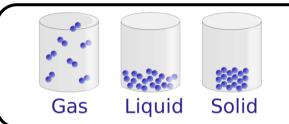
## **100% Sheet Particle model**



## Matter

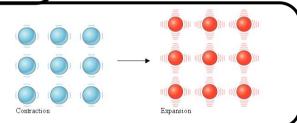
All material in the Universe is made of very small particles.

When answering questions about particles think carefully about how the particles are moving, how fast they are moving and <u>how far apart they are.</u>



Remember what the different changes in state are called for example freezing, melting, condensing and evaporating

Expansion happens when particles gain energy though heating and move away from each other. The space between them gets bigger put the particles DO NOT get bigger.





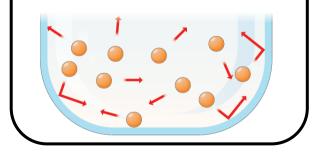
Particles in liquids or gases spread from where they are in high concentration throughout the medium that they are in

## Key words to learn

Particle – a very small object such as an atom or molecule
Diffusion – where particles in liquids or gases spread out
Evaporate – changing from liquid to gas at the surface of the liquid
Condense – changing from gas to liquid
Boil – changing from liquid to gas
Melt – changing from solid to liquid
Freeze – changing from a liquid to solid
Sublime – changing from solid to gas or vice versa without being a liquid
Cas pressure – Force anyond by particles colliding with the wells of

**Gas pressure** – Force caused by particles colliding with the walls of a container

PRESSURE is caused by particles hitting a surface, the more they hit it or the harder they hit it, the greater the pressure



You MUST be able to label each part of this graph to show change of state

