

Solids, liquids and gases Quiz 6

Units				
unit of temperature : degrees		(o), and		(),
unit of density				
unit of pressure,				
Density and pressure				
density =				
ρ =				
•				
pressure =				
<i>p</i> =				
the pressure at a point in a ga	as or liquid which	h is at rest acts		
In a liquid: pressure differen	1ce =			
<i>p</i> =				
Change of state				
a substance can change state	from	by the pro	ocess of melting	
a substance can change state	from	by the pro	ocess of evapora	tion or boiling
particles in a	have a ra	andom motion within a	a close-packed s	tructure
particles in a	vibrate about fix	ted positions within a	close-packed reg	gular structure
Ideal gas molecules				
, is ran	ndom motion cau	ised by the random mo	otion of air molic	cules.
molecules in a gas have a ran	ndom motion and	that they exert a		and hence a
on the				
there is an	of temperat	ture which is – 273 °C		
the kelvin temperature = the	Celsius temperat	ture +		
an increase in temperature re	esults in an increa	ase in the	of ga	s molecules
the kelvin temperature of t				
for a gas in a sealed contained	er when the kelvi	n temperature increase	es the pressure	
·				
the relationship between the constant volume:	ne pressure and	kelvin temperature o	of a fixed mass o	of gas at
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the relationship between protection temperature	ressure and volu	ime of a fixed mass o	n gas at constar	IL