4/2021		matter		
1)	matter is anything	g serat occupi	es space, has mas	s and ear
	com be classified			
	CHARACKERISTICS	SOLID	Liguis	GASES
8	shaped and	Fined	volume	not fixed
6	Pasticles	40se together	Furthers than Solids	very for
C	space	very less	more than solids	lot of space
d		very stoong	less than solids	very w
e	compressibility	compressed	Negligible	can be
f	Diffusion	none	none	presen
9	Density	maximuen	less than solids	least
n	Rigidity/ Eluidity	rigid	Ruid	suic
5)	most dia non-n	retal are	diatonnic. doms can exist	
IATOMIC:	Molecule compose	ed of 1 at	ons	
- Intonic	Molecule compo	sed of mor	e than 2 atom	NS -

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MELTING! FUSION AND FREEZING :when a solid is heated at a fixed temperature it dranges into liquide this process is called melting or gusion. The reverse mappens when this liquid is cooked. The liquid priezes into solid at the same fixed temperature. This is called freezing. eg: ice to water, water to ice. VAPORIZATIONBY MOLECULAR MODEL:en a liquid, the molecules move in all direction but within the boundary of the container. They exert small forces of attraction on each other, They have low kinetic energy. On heating the average kinetic energy of molecules of liquids increases. At a particular temporature the molecules acquire sufficient kinetic energy to overcome the forces of attraction between themselves and they become free to leave the liquid surface This is called Vaporization. VAPORIZATION OR BOILING: The change from liquid state to gaseous state on heating at a constant temperature by absorbtion of neat is called vaporization or boiling. Boiling is at a fined temperature while evaporation cour occurs at any two eg: water to voypours EVAPORATION :-Evaposation is another process by which a liquid changes into vapour. The change of state from liquid to vapour at all temperature from the surface

	RATE OF EVAPORATION:
1)	The exaporation temperature of the liquid: the same of
	eignid is eriges.
	The area of the exposed surface: the grate of evaporization increases if the area of the exposed area increases
3)	The nature of liquid: Volatile liquids evaporate me fastes as the force of attraction between their molecules is negligible.
u)	The flow of air above the liquid: - If air is blow above a liquid it evaporates much fastel.
5)	ne presence of moisture or humidity? In dry of evaporation is juster than on humid days.
	Molecular model of Evaporation:
	en liquide molecules more withren their boundars
	they will with each other. During this collision, &
	of molecules selow the surface of the liquid go
	enough energy to overcome their forces of attraction and their intermolecular spaces which is originally
- 11	more in solids but lesser than gases. As these
	notecules more to the surface of the liquid to
- 11	assors heat from their surrounding areas whi
	allows them to escape into the atmosphere wite
	the air molecules. This is the molecular model evaporation.

	SUBLIMATION AND DEPOSITION:-
- 0	sublimation is the process by which a solid
	directly changes into it's vaporus if heat is supplied to its
eq:	Naphathaline balls, dry ice to coz
0	
0	deposition is the process where vapours on
	cooling turn directly into a solid form without
29:	first changing first into a liquid. Formation of frost, sand dunes (formation)
0	
	Explanation of sublimation by the Molecular Model:-
	In some solids the intermolecular force of attraction
	and intermolecular space is enigher. In such solids
	on heating threy acquire sufficient kinetic energy to overcome threir forces of attraction entirely and
	secome free to move anywhere, Thus their
	internotecular spaces increase more and teren turn
	into vapours. This is the molecular model of
	sublimation.