Date: _____ Page: ____ Matter in Our Surrounding · Anything rehich has mass and occupy space is called matter to take, chair, air · Hatter is made up of · small · States of matter * Solid -* Liquid * Yas * Plasma higheid * Interparticle space Space between small particles (molecules) Space

Date: _/ / Page: * Interparticle force Force of attraction acting helplen the particles of matter molecules is called interparticle force Interparticle space is vece-verse

to interparticle for

En-In solid of the interparticle space is less and so

the interparticle force is high 4 A Chracteristics of Particles of Particles of matter have space interparticle space between them Ex- Act 102 Varticle of natter are En - Act 1.2 3) Particle of matter are continously moving

Page: freshner in a room the smell of the freshner can be smelled outside of the room because the particle nows from one room to other, due 9) Particles of Matter Attract Each se En-Art Diffusion particle of two/r e process in matter internines estores is diffusion Eg: Mixing of water vapours into air after during evaporation P. T. 0

StarLine Date: Page: Sublimation Deposition

Date: 01,04,25 Page:_ yas Liquid Solid Property Sn less maximum Very less Interparticle space very strong less strong weak more maximum definite indefinite indefinite definite indefinite in definite high moderate low very low law very high very low can flow can How very high Huidity more zero 11. Kinetic energy # of Effect of change in Temperature increasing the temperature a converted into gaseous state by decreasing d state and a liquid can converted into solid state liquid change (melbing/fusion The process in which a solid substance changes into liquid on heating

-StarLine Date: __/_/ Page: ___/ e called melling trusion

Ex-Jce changes into water on
heating * Melting Point- The temperature which a solid substance starts
melting/melts and changes into
a liquid at atmospheric pressure
is called melting point of substance Ex-Melling point of ice is 0°C
Melling point of wax is 63%
Melling point of iron is 1535% Liquid to yas change Vaporisation boiling The process in which a liquid substance changes into gas on heating is called boiling/vaporisation vaporisation Ex-Boiling of water shich a liquid substance sta boiling boils and changes into gas traficlly into a gas as artmospheric pressure is called boiling point of the liquid

Page: Ex-Boiling point of water is 100°C, Boiling point of alchot alcholis 78°C, to Liquid Change Condensation starts into essuro bstance Ex- Steam changes into water > Condensation is the reverse of 63% 15350 Liquid to Solid change (oces of changing of liquid porisation Ex- Freezing of water the reverse of

Page: point of a liquid to the welling point of water is or Solid Heat (melby) Liquid Heat (twiling) yesens State tool (Condensition) State * latent heat Chidden heat The heat energy which has to be subled to change the state of substance is called to latent heat. Latent heat does not in crease the temperature it becomes hidden in the change it state and does not shop the presence by herensing temperature ature Types of hatent heat (hidden heat) liquid changes fusion (solid to The latent heat of fusion of

-StarLine Date: Page: in joules reque point, without X 105 (joules / Kilogram taseas of the ice Stale Latent heat of vaporrisation (diquid to as quantity of heat joules convert stiqued of to god point without any change boiling berature heat of vapourisation ange 05 gas change (Sublimation The process in which converts into a is called Sublimation Ex-Sodine, Canaphor, Haple balls, dry ice and to Chloride are directle into gases

-StarLine-Date: ___/ I gas to solid change (deposition)the changing of varpours into olid on cooling is known as deposition Ex-Conversion of carbon-dioxide
gas into day the ice b) Effect of change of Bressure The physical state of matter can also be changed by increasing the pressure or altereasing the Ex- gases can be changed into liquids or folids by increasing the Pressure accompanied by bu the temperature and some solids can be changed into gases on idecreasing the pressure and higher the temperature

Date: ___ Page:_ Cylinder Cylinder cylinder Priston 4 11 Fig 1.8 By applying pressure particles of matter can be brought up closes reasing A Exaporation Evaporation The process of a liquid changing into varous or gas even below its boiling point is called evaporation? vto In this process some of the liquid at the surface turns into vapour Thus, when a liquid turns into a vapour vapour, it is said to evaporate Jering on Shatever be the temperature at which the evaporation takes place the latent heart of vapouration must Langel into vapour

due to evaporation. · Factors effecting Evaporation 1) Romperature The rate of evaporation increase on increasing the temperature of the liquid In other words rate of evaporation of a liquid increases on heating. i) Surface area of the liquid The rate of evaporation increase on increasing the Surface area of the liquid. Ex- If the tex kept in a cup and a saucer, then the lea kept in the saucer will wapprate more rapidly Has the cup (iii) Humidity of air The amount of water vapour present in air is called hymidity present in air is large, the

air appears to be damp and use day that humidity is high > When the humbily of air is low than the rate of evaporation is high and water evaporates more grapisty. increases than the humidity of air is high.

than the sale of evaporation
is low and water evaporation very ords of liquid in Wind Speed The rate of evaporation Theregses increases with area Ex- 1 that the increasing wind speed with clothes dry more quickly in then due to high speed of wind Cooling cause by Evaporation liquid evaporates, it must be sup the latent heat of vaporisation from mothing which it fouches be losing heat this anything gets umidity

-StarLine-Date: ____ Page: - Cotton plag Inverted Funnel Camphor Camphor ed An China dich

Date: ____ Page:_ 1 meter Ans se the recause du air of and cold found and diffusion Thus food. arthern bot (matka) become

StarLine-Date: _____ Page:_ Ans Ans The evaporati temperature keeping water cool Saucer di sah hear

-StarLine balls time without leaving solion porate Substance Raphthalene ba inferature strate change in gasevers state due to less intoparticle force. . hot the smell of can ing several meters perfume Cer Thus making is is a solid at

-StarLine Date: Page: Groom on

Tij) Tabulate the defferences in the states of matter density Ans Properties Solid Liquid yas Veryless less 1) Interparticle very strong strong weak 2) Interparticle Space asing maximum 3) State of Motion more minimum definite indefinite indefinite y Shape définite indéfinite in définite 5) Volume Speed moderate low a Rigidity high moderate low 1 Density very low low very high aporation 8) Comprassiblity very slow slower high may 2 Diffusion Can flow can flow 10 Pluidity Zero 11) Kinetic Energy