

## Particle Model and Phase Change Worksheet

A. Fusion D. Sublimation B. Solidification E. Condensation C. Deposition F. Evaporation	
a) Humidity in the air from a shower transformed into droplets on the mirror	E
b) Melting ice that has built up under skis	A
c) Clothes drying in the sun	F
d) Making frozen treats with fruit juice	B
e) Snow crystals forming from water vapour in the air	C
f) Using dry ice to make smoke during a concert	D
g) CO <sub>2</sub> being released from a fire extinguisher	C
h) Moth balls releasing a bad odour	D
<ul> <li>b) The smaller the molecules, the faster they move.</li> <li>c) Particles move more quickly as temperature rises.</li> <li>d) Forces of attraction can hold particles together.</li> <li>e) The particle model explains the organization of the three states of matter.</li> </ul>	
3. Match each statement below with one of the following states of matter.	
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State: A. Gas B. Liquid C. So  a) You need a container to carry me.	lid & B
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State: A. Gas B. Liquid C. So  a) You need a container to carry me.  b) My particles can move freely.  c) I can be picked up and held.	lid  & B  A  C  B  C
State: A. Gas B. Liquid C. So  a) You need a container to carry me.  b) My particles can move freely.  c) I can be picked up and held.  d) My particles are held together loosely.	lid  8 B  A C B C B

1		ything that	+ ha	as volume
<b>5.</b> What holds the p		olid together?	ł	i e Kwicase .!!
<b>6.</b> Using the particle	e model, desc	ribe two differences be	etween a	solid, a liquid and a gas.
Soli	D	Liquid	ort zaci	GAS
Very Organ Very Little to Can only vi one  7. The particles in a) Using only th your answer.	reedom  brote in spot  a sample of r  is information		Chother chother this sam	Lots of space move freely
Partice Little  8. For each of the	les as free clor	ow determine of there	anus ub in an inc	ied nate un ones
7.3	Increase or	decrease in temp.	Increa	se or decrease in
Ice melts	inc	rease	3	increase
Water evaporates	ir	rease		increase.
Water freezes	d	ecrease	ries es	accrease
Gas becomes a liquid	0	acreese.	1	accease.