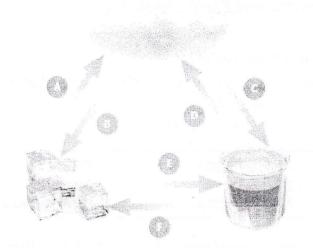
Name: MSWC

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Date:			

Particle model and Phase changes

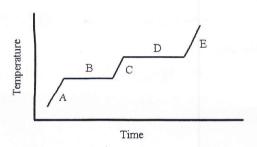
1. V	Vhy c	do we use the particle n	nodel of matter?	
	Exc	lain how parti	cles behave	& are organized.
	in	the 3 phases	of matter	J
2. F		the blanks using the v		
	Ato	oms (2)	Physical State	Matter
		olecules	Moving	Mutually
	Par	rticles (2)	Pure Substance	Temperature (2)
		Llox		11-1-0
	a)	All matter is		
		particles areoctor		
	b)	Each pure Substan	owr	type of particles
		For example, particles	s of sugar are differen	nt than water particles: they
		are not made up of th	e same <u>atoms</u>	and are not the same size
		or mass.		
	c)	Particles are <u>mut</u>	attracted	to each other. The closer the
		particles are, the grea	ter the forces of att	traction.
	d)	The particles are alwa	ys moving	The amount of movement
		depends on the Phy		
	e)	Particles in which the	temperature	is higher move faster than
		particles whose <u>tem</u>		
	f)	134 backton Lauraniaces		
3.		is the boiling point of pur	e water?	<u>C</u>
4.	What	is the melting point of pur	re water?	

5. Each arrow in the following illustration represents a phase change. Write the type of phase change beside each letter.



A:	Sublimation
B:	deposition
C:	condensation
D:	evaporation.
	me Iting
F:	solidification

6. The phase diagram below is for that of pure water. Answer the following questions.



a) What do we call the two portions of the curve where the temperature remains constant (Band D)?

plateau.

b) During the time when the temperature is increasing, (A, C and E), how many phases are present?

c) During what part of the curve do we find water in:

- its liquid state? _____ - its solid state? _____

- its gaseous state?

- solid and liquid state?