

## Phase Changes

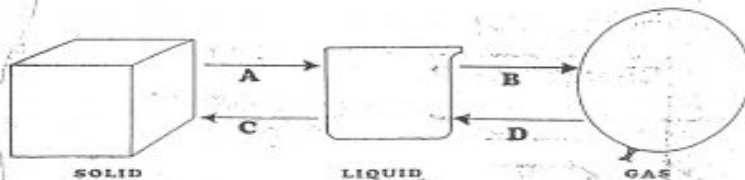
1. To complete the chart below, describe the volume and shape of solids, liquids, and gases by writing "definite" or "not definite." Then describe the movement of the particles.

STATE	VOLUME	SHAPE	MOVEMENT OF PARTICLES
SOLID	DEFINITE		
LIQUID			
GAS		NOT DEFINITE	

2. Complete this chart by writing in the correct information about water.

ACTIVITY	ARE PARTICLES GAINING ENERGY OR LOSING ENERGY?	WHAT CHANGE OF STATE TAKES PLACE?	ARE PARTICLES SPEEDING UP OR SLOWING DOWN?
MELTING			SPEEDING UP
FREEZING	LOSING		
EVAPORATING			
BOILING		LIQUID TO GAS	
CONDENSING			SLOWING DOWN

3. Draw the particles inside each state of matter below. Be sure to show the correct speed and amount of movement with arrows.



4. Label the four arrows above with the term for the change of state above that each arrow represents: