

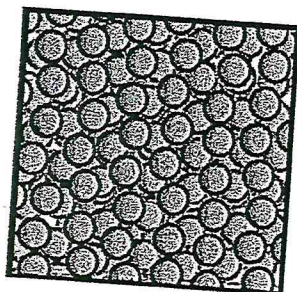
When heat is added to a liquid the molecules continue to move farther apart causing the liquid to change into a gas (boiling).

When heat is taken from a gas (cooling) it will change back into a liquid state (condensing)

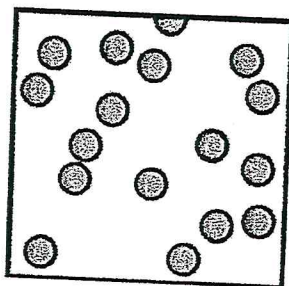
When heat is taken from a liquid (cooling) it will change into a solid (freezing).

Remember, when matter changes state it is the same matter. It is a physical change - it doesn't turn into something different. Liquid water, ice, and water vapor (steam) are all made of  $H_2O$  molecules. There is just a different amount of heat energy causing it to change from solid to liquid to gas.

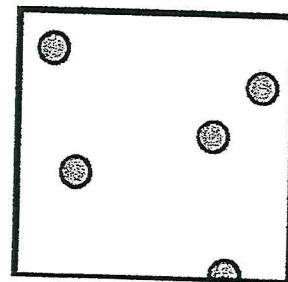
Study Hard !!! Practice writing your essays!!!



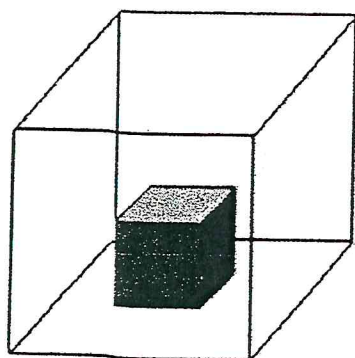
Solid



Liquid



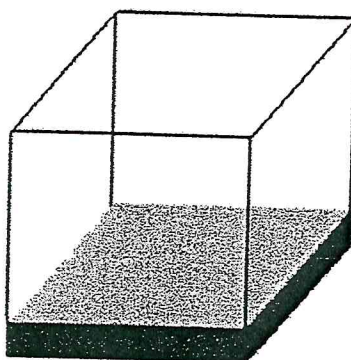
Gas



Solid

Holds Shape

Fixed Volume

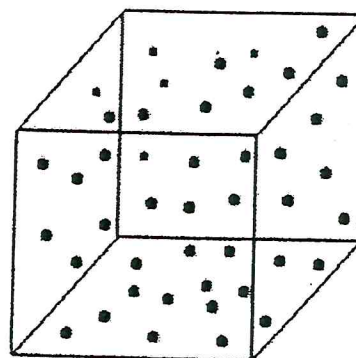


Liquid

Shape of Container

Free Surface

Fixed Volume



Gas

Shape of Container

Volume of Container