

- ① Atom is the smallest particle from which matter is made up of.
- ⑧ a) Liquids and gases have more gaps between their molecules thus can move like fluids. But solids ~~have~~ can't move thus they can't flow.
- b) A gas can move freely anywhere and also can fill up any space available to it.
- c) The odour is gas, so it can move from one room to another like gas.
- d) Our body is made up of solid and solid occupies space through air.
- e) Liquids have a area in which they are present like  
Ex- In a pond the volume of water is in its boundary.  
But liquids don't have definite shape it only depends on the size of the container.
- f) Because liquid has space between them if the didn't then the sugar will not be able to dissolve also there are no physical changes in the water level.

- g.) Because gas can move to any place / move freely.
- h.) It shows that a red ink drop has so many molecules to make a glass of water red.
9. a.) Cohesive force - The force of attraction between two molecules of the same kind.
- b.) Diffusion - The mixing of two substances by motion.
- c.) Brownian movement - The zig-zag motion of path of particles.