HW
14/07/21

MATTER

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1. The smallest ~~particle~~ particle called atom.

8 a) Liquids and gases flow but solids do not.

Ans- Because solid have the highest intermolecular force of attraction but liquid and gas their is less intermolecular force of attraction than solid.

b) A gas fills up the spaces available to it.

Ans- Because gas has the highest inter-molecular space that is why it fills up the space available to it.

c) The ~~coto~~ odour of scent spreads in a room.

Ans- Because the particles of matter are not at rest, but they move randomly in all possible directions in a ~~zig~~ zig zag path. Because gases diffused very fast

d) We can walk through ~~or~~ air.

Ans- The molecules of air are far apart ~~in~~ i.e large gaps and we can walk through the air easily.

e) Liquids have a definite volume but no definite shape.

Ans- Because in liquids, the molecules are not very ~~to~~ closely ~~pas~~ packed. They do not attract each other strongly so the intermolecular space are larger

f) When a teaspon of sugar is added to half a glass of water and stirred, the water level in the glass remains unchanged.

Ans- Because particle of matter have space between them

g) When an empty gas jar is inverted over a gas jar containing a coloured gas the gas also spread into a emty jar.

Ans- Because Gas have ~~a~~ neither a fixed ~~fact~~ shape nor a fixed volume they have no free surface.

b) A red ink drop added to a small amount of water in a glass turns the water red in some time.

Ans- Because its partle diffuse with ~~partil~~ particle of water slowly but continiously.

9. a) Cohensive force - The force of attraction between like particle and molecule are called cohensive force.

b) diffusion - The phenomenon of intermixing of particles of one kind with another kind is called diffusion.

c) Brownian movement - The zig-zag motion of particles suspended in a medium is called Brownian movement.

Chemical change - wax is the fuel that pro
heat and light, carbondioxide and water va

Physical change - wax melts when it gets ho
and solidifies when it gets cold.