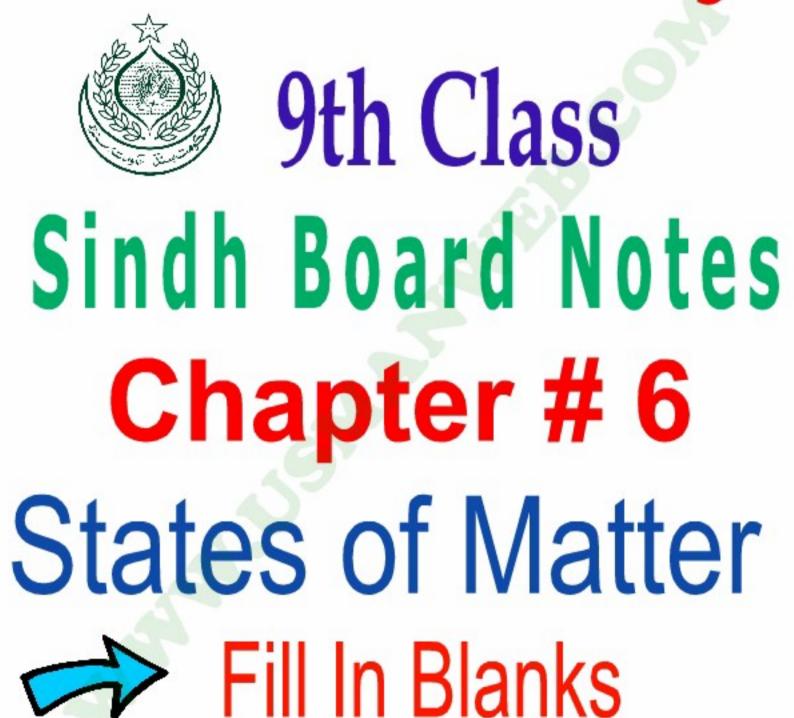
# Chemistry



پنجاب، سندھ، بلوچستان، خیبر پختونخواہ، بور ڈزکے تمام نوٹس سابقہ پیپرز،اس دیب سائیٹ سے فری ڈاو ملوڈ کریں۔

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Chapter # 06

Chemistry - IX

#### Fill In The Blanks



#### → STATES OF MATTER

- 1. There are three common states of matter.
- Gas possesses neither definite shape nor definite volume. 2.
- 3. All types of matter is usually composed of smallest particles which are always in motion.
- The temperature at which liquid starts boiling is called boiling point. 4.
- 5. The <u>liquid</u> is the intermediate state between solid and gas.
- Evaporation is the escape of molecules from the surface of liquid. 6.
- 7. Matter is anything that has mass and occupies space.
- There are three common states of matter i.e. solid, liquid and gas. 8.
- 9. Solid has definite shape as well as definite volume.
- 10. Liquid has a definite volume but not a definite shape.
- Gas has neither definite shape nor definite volume. 11.
- 12. According to Kinetic molecular theory, matter is composed of very tiny particles, which are called as molecules.
- 13. The molecules are always in motion and they possess kinetic energy.
- 14. In solid state molecules are tightly packed with one another.
- 15. Molecules have only back and forth motion (vibrational motion) about their fixed positions.
- 16. Solids possess definite **shape** and definite **volume**.
- 17. Molecules are **not** tightly packed with one another.

- Liquid does not have a definite <u>shape</u>.
- 19. Liquid has a fixed volume due to intermolecular forces.
- When some solids upon heating instead of changing into liquid state are converted into gaseous state, the process is called <u>sublimation</u>.
- 21. Iodine, ammonium chloride and naphthalene are the sublime substances.
- 22. The temperature at which solid starts melting is called melting point.
- 23. Change of state from solid to liquid is called fusion.
- Due to increase in Kinetic energy, escaping of surface molecules of liquid into vapours is called <u>evaporation</u>.
- 25. Change of state from liquid to gas is called vapourization.
- Change of state from gas to liquid is called <u>condensation</u>.
- The temperature at which vapour pressure of the liquid becomes equal to external pressure applied on the liquid is called <u>boiling point</u>.
- 28. The spreading of a substance through medium like air or liquid is called diffusion.
- The rate of diffusion of a substance depends upon its molar mass or <u>density</u>.
- 30. Lighter gases can diffuse faster than the heavier gases.
- 31. Liquid is intermediate between gaseous and solid states.
- The rate of movement of <u>liquid</u> molecules is smaller than gases, hence they diffuse slower than gases.
- In 1827, Robert Brown observed the Brownian movement during the movement of <u>pollen</u> grains in water by microscopic.
- 34. A continuous, rapid, <u>zig-zag</u> motion of suspended particles through the medium is called Brownian motion.

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