

# Chemistry



9th Class

Sindh Board Notes

Chapter # 6

States of Matter



Fill In Blanks

پنجاب، سندھ، بلوچستان، خیبر پختونخواہ، بورڈز کے تمام نوٹس سابقہ پیپرز، اس ویب سائٹ سے فری ڈاؤن لوڈ کریں۔

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## → STATES OF MATTER

1. There are **three** common states of matter.
2. Gas possesses neither definite shape nor definite **volume**.
3. All types of matter is usually composed of smallest particles which are always in **motion**.
4. The temperature at which liquid starts boiling is called **boiling point**.
5. The **liquid** is the intermediate state between solid and gas.
6. **Evaporation** is the escape of molecules from the surface of liquid.
7. Matter is anything that has **mass** and occupies **space**.
8. There are three common states of matter i.e. **solid, liquid** and **gas**.
9. Solid has definite shape as well as definite **volume**.
10. Liquid has a definite **volume** but not a definite **shape**.
11. Gas has neither definite **shape** nor definite **volume**.
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.

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

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## 9th Class

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