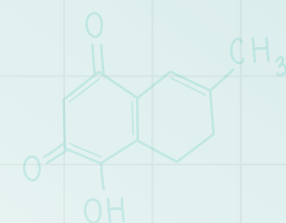


Last Moment Exam Cheat Sheet

Matter in our surrounding

- **Matter is anything** that occupies space and **has mass**.
- Particles of matter have **spaces** between them, move continuously and attract each other.
- Main **states** of matter are **solid, liquid and gas**.
- Plasma is the **fourth state** of matter; Bose-Einstein Condensate is the **fifth state**.
- **Kinetic energy** increases with increase in **temperature**.
- **Force of attraction:** Solid > Liquid > Gas.
- **Interparticle space:** Gas > Liquid > Solid.
- Diffusion is **fastest in gases** and **slowest in solids**.
- Melting point of ice is **0°C**.
- Melting is also called **fusion**.
- Boiling is a **bulk phenomenon**; evaporation is a **surface phenomenon**.
- **$K = ^\circ C + 273$** .
- **$^{\circ}F = 9/5 \times ^\circ C + 32^{\circ}$** .
- Latent heat is heat used to change the state **without changing temperature**.





- Dry ice is **solid CO₂**.
- Gas can be liquefied by **high pressure and low temperature**.
- Evaporation increases with **surface area, temperature and wind speed**.
- Evaporation decreases with increase in **humidity**.
- Evaporation causes **cooling**.
- Ice floats on water because ice is less **dense than water**.



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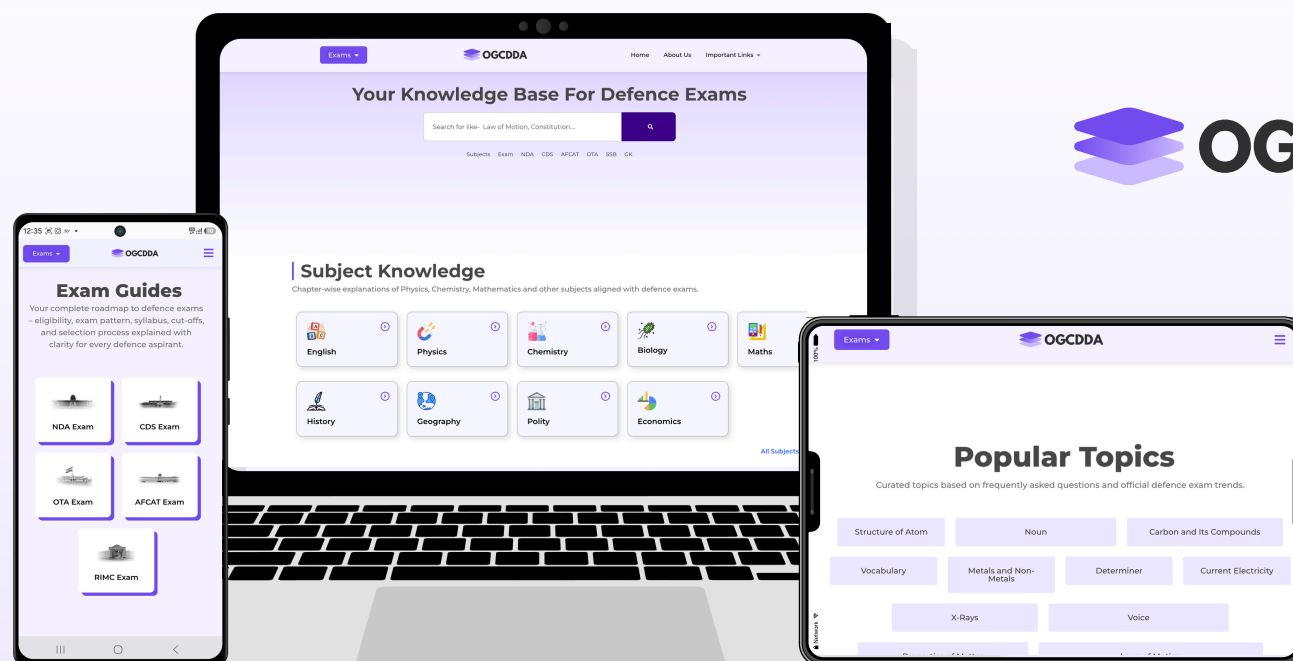
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