

Properties of Matter


- Matter exists as **solid, liquid, gas**
- Solids have **fixed shape and volume**
- Liquids have **fixed volume only**
- Gases have **no fixed shape or volume**
- **Mass is constant** everywhere
- **Weight** depends on gravity
- **Weight** = mass \times g
- **Volume** = space occupied
- **Density** = mass / volume
- **Higher density** \rightarrow sinks
- **Specific gravity** = density of substance / density of water
- **No unit** for specific gravity
- **Buoyant force** acts upward
- **Loss of weight** = weight of displaced fluid
- **Pressure** = force / area
- Pressure **increases with depth**
- **Atmospheric pressure** decreases with height




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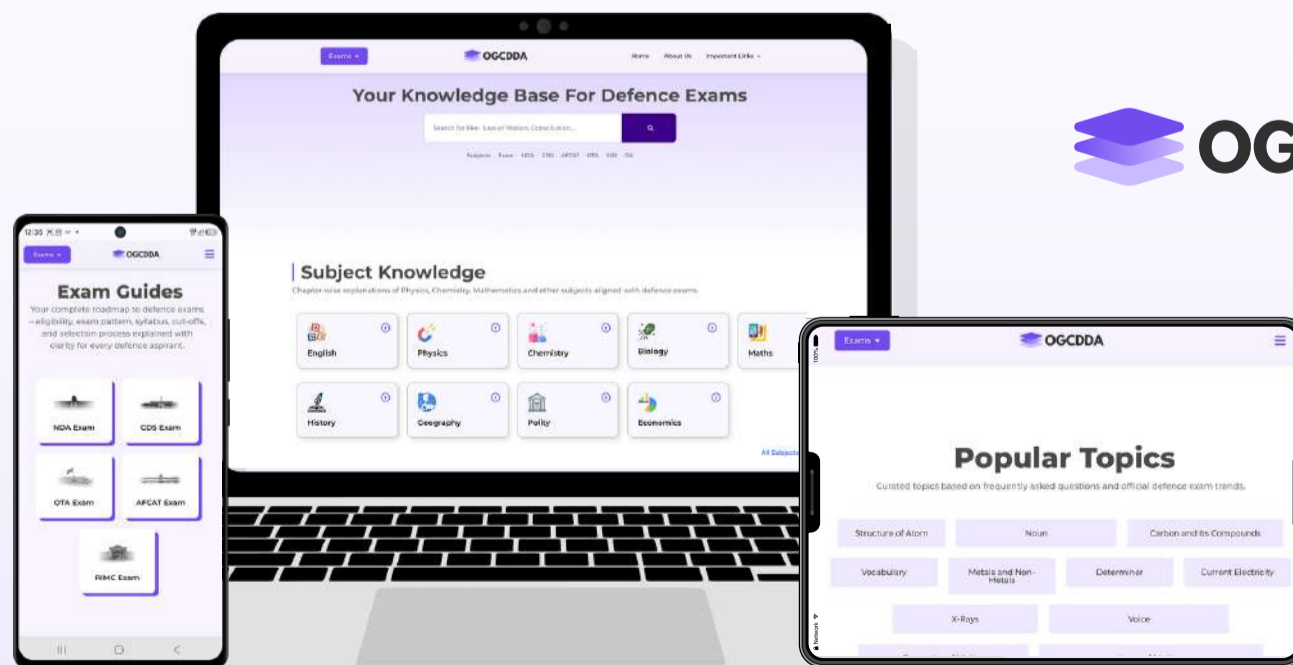
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