

The Particle Model of Matter

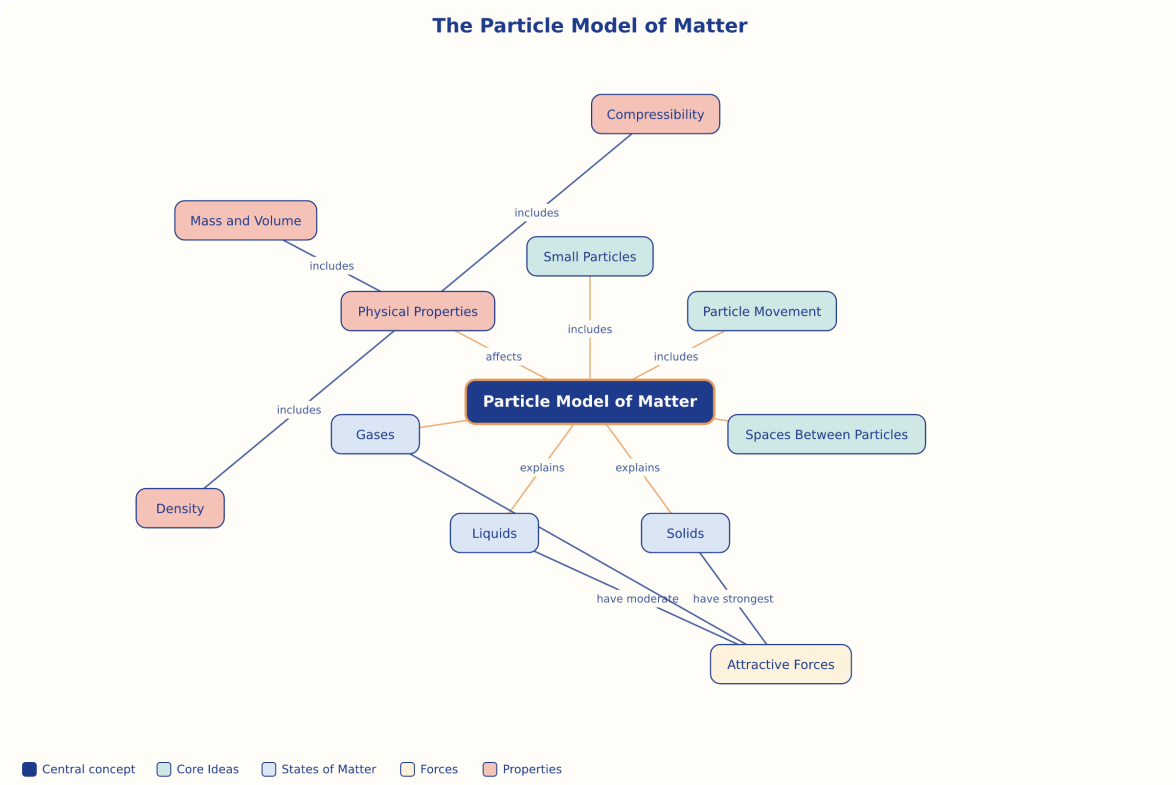
Central concept: **Particle Model of Matter**

Connections

- Particle Model of Matter (includes) -> Small Particles
- Particle Model of Matter (includes) -> Particle Movement
- Particle Model of Matter (includes) -> Spaces Between Particles
- Particle Model of Matter (explains) -> Solids
- Particle Model of Matter (explains) -> Liquids
- Particle Model of Matter (explains) -> Gases
- Particle Model of Matter (affects) -> Physical Properties
- Solids (have strongest) -> Attractive Forces
- Liquids (have moderate) -> Attractive Forces
- Gases (have weakest) -> Attractive Forces
- Physical Properties (includes) -> Density
- Physical Properties (includes) -> Mass and Volume
- Physical Properties (includes) -> Compressibility

Notes

- **Particle Model of Matter:** Explains behaviour of particles in all matter [Understanding](#), [PDF p.1](#)
- **Small Particles:** All matter is made up of tiny particles [Knowledge](#), [PDF p.1](#)
- **Particle Movement:** Particles are always moving [Knowledge](#), [PDF p.1](#)
- **Spaces Between Particles:** Particles have gaps between them [Knowledge](#), [PDF p.1](#)
- **Solids:** Particles close together, vibrate in place [Knowledge](#)
- **Liquids:** Particles separated by spaces, slide past each other [Knowledge](#)
- **Gases:** Particles in large spaces, move in all directions [Knowledge](#)
- **Attractive Forces:** Strongest in solids, weakest in gases [Knowledge](#)
- **Physical Properties:** State, mass, volume, density, compressibility [Knowledge](#)
- **Density:** Comparison of mass to volume [Knowledge](#)
- **Mass and Volume:** Measured in SI units: grams, kilograms, millilitres, litres [Knowledge](#)
- **Compressibility:** Ability to reduce in volume under pressure [Knowledge](#)



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