

The Particle Model of Matter

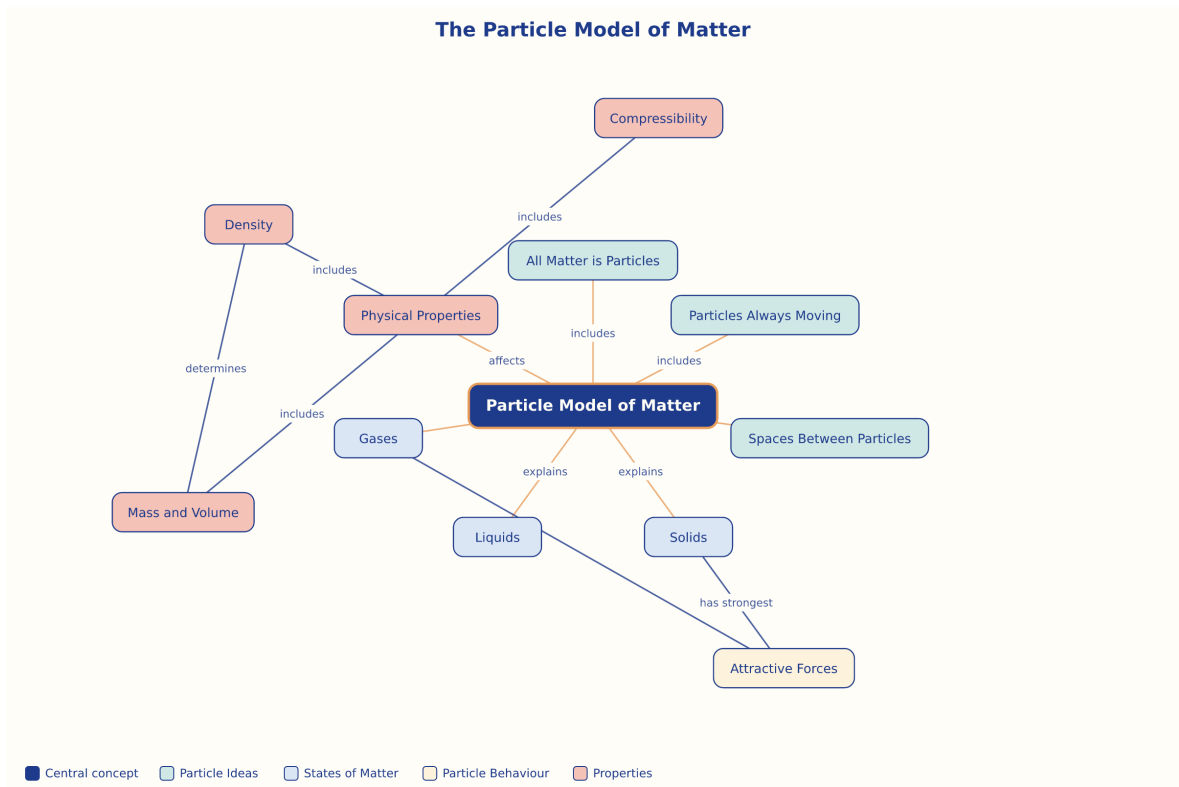
Central concept: **Particle Model of Matter**

Connections

- Particle Model of Matter (includes) -> All Matter is Particles
- Particle Model of Matter (includes) -> Particles Always Moving
- 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 (has strongest) -> Attractive Forces
- Gases (has weakest) -> Attractive Forces
- Physical Properties (includes) -> Mass and Volume
- Physical Properties (includes) -> Density
- Physical Properties (includes) -> Compressibility
- Mass and Volume (determines) -> Density

Notes

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



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