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# IGCSE CHEMISTRY NOTES

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## Syllabus

### [IGCSE Chemistry \(0620\) Syllabus](#)

#### The particulate nature of matter

- Distinguishing properties

SOLID	LIQUID	GAS
<ul style="list-style-type: none"><li>• Strong forces of attraction between particles</li><li>• Fixed pattern (lattice)</li><li>• Atoms vibrate but can't change position <math>\therefore</math> fixed volume and shape</li></ul>	<ul style="list-style-type: none"><li>• Weaker attractive forces than solids</li><li>• No fixed pattern, liquids take up the shape of their container</li><li>• Particles slide past each other.</li></ul>	<ul style="list-style-type: none"><li>• Almost no intermolecular forces</li><li>• Particles far apart, and move quickly</li><li>• Collide with each other and bounce in all directions</li></ul>

- Structure
  - Solids - Particles are arranged in a fixed particle or lattice. They cannot leave their positions. They have a to and fro motion called vibration
  - Liquid - The particles in a liquid can move around and slide past each other. They are close but have no lattice. 3R motion - Random, Rapid, Rectilinear
  - Gases - There are almost no forces holding them together. 3R motion - Random, Rapid, Rectilinear

# Cambridge Chemistry Notes

**J Elliott**



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