
IGCSE CHEMISTRY NOTES

Syllabus

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

The particulate nature of matter

- Distinguishing properties

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

- 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

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