

# GCSE CHEMISTRY PAPER 1 TOPICS

## Atomic structure and the periodic table

- The structure of the atom
- The periodic table
- Electronic configurations The relationship between electronic configuration and the periodic table
- Ionisation energy and electronegativity

## Bonding, structure, and the properties of matter

- Ionic bonding
- Covalent bonding
- Metallic bonding
- Intermolecular forces
- States of matter
- The relationship between structure and properties of matter

## Quantitative chemistry

- Mole concept
- Stoichiometry
- Avogadro's number
- Gas laws
- Volumetric analysis

## Chemical changes

- Types of chemical reactions
- Balancing chemical equations
- Redox reactions
- Reaction energy
- Factors affecting the rate of chemical reactions

## Energy changes

- Heat energy
- Exothermic and endothermic reactions
- Bond energy
- Hess's law
- Activation energy

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