

CHEMISTRY KS3

CURRICULUM ROADMAP

1

Atoms and the Periodic Table

Students will learn about the structure of atoms, elements, and how the periodic table is organised to show patterns in element

2

Matter – Separation Techniques

Students will explore the particle model of matter, how substances mix and move, and how mixtures can be separated using physical techniques.

3

Reactions 1

Students will investigate chemical reactions involving metals and non-metals, explore displacement reactions, and understand the pH scale and indicators.

4

Reactions 2

Students will build on their understanding of chemical change by writing word equations, identifying reactants and products, and studying combustion and oxidation.

5

Earth 2 – Chemistry of the Atmosphere

Students will study the composition and evolution of the Earth's atmosphere, the carbon cycle, and the impact of human activity on climate.

6

Earth 1

Students will explore the rock cycle, types of rocks, and their formation, as well as learning about the structure of the solar system and the movement of celestial bodies.

7

GCSE Preparation

Students will consolidate their understanding of key chemistry concepts, developing scientific skills and exam techniques in preparation for GCSE-level study.

Working Scientifically

Students will develop essential scientific enquiry skills, including planning investigations, collecting and analysing data, and drawing evidence-based conclusions, with a focus on accuracy, reliability, and fair testing.