



Chemistry Curriculum Map

GCSE EXAM

Using Resources

REVISION

MOCK EXAM

Paper 1
• Written exam: 1 hour 15 minutes
• Foundation and Higher Tier
• 70 marks
• 16.7% of GCSE

Paper 2
• Written exam: 1 hour 15 minutes
• Foundation and Higher Tier
• 70 marks
• 16.7% of GCSE

FURTHER STUDY

Pure Chemistry • Chemical Engineering • Medicine • Toxicology • Pharmacy • Food Science • Law • Biochemistry • Dentistry • Geology • Physiotherapy • Veterinary Science

CAREER PATHS

Research Scientist • Pharmacist • Copywriting • Education • Journalism & Broadcasting • Patent Law • Marketing • Forensics • Politics • Science Writer • Management Consultant • Civil Servant • Environmental consultant

SKILLS

Analysis • Attention to Detail • Communication • Conceptual Understanding • Practical • Literacy • Organisation • Problem solving • Research • Patience • Logical Thinking

INTEREST

We will enhance their lives in and beyond the classroom.

Chemistry of the Atmosphere

MOCK EXAM

How do I know what is in this pill?

END OF YEAR ASSESSMENT

YEAR 11

Chemical Analysis

Organic Chemistry

The Rate and Extent of Chemical Change

Full Paper 1

MOCK EXAM

Energy changes

The start of your first GCSE unit

END OF YEAR ASSESSMENT

ASK: How do we get plastics and petrol from oil?

MOCK EXAM

Types of Reaction

Earth Resources

Atomic Structure and The Periodic Table

Bonding, Structure, and the Properties of Matter

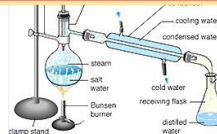
YEAR 10

Quantitative Chemistry

Chemical Changes

MID-YEAR ASSESSMENT

END OF YEAR ASSESSMENT



ASK: How are metals extracted from their ores?

The Climate

Elements

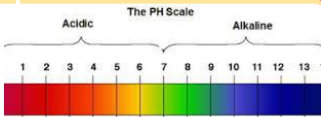
YEAR 9

Revision Techniques

Analysing Substances

- ★ The concept of a pure substance
- ★ Mixtures, including dissolving
- ★ Diffusion using the particle model
- ★ Separation techniques
- ★ Identifying pure substances

Practical Skills and Enrichment



END OF YEAR ASSESSMENT

MID-YEAR ASSESSMENT

ASK: Was our planet always like this?

Acids & Alkalis

- ★ Neutralisation reactions.
- ★ The pH scale and indicators.
- ★ Reactions of acids with metals.
- ★ Reactions of acids with alkalis.

Revision Techniques

YEAR 8

Earth and the Atmosphere

- ★ Composition of the Earth.
- ★ The Rock cycle.
- ★ Resources and recycling.
- ★ Composition of the atmosphere.
- ★ The changing climate.

ASK: What is everything made from?

MID-YEAR ASSESSMENT



Atoms

- ★ A simple (Dalton) atomic model
- ★ Atoms, elements and compounds
- ★ Chemical symbols and formulae
- ★ Conservation of mass changes of state
- ★ Chemical reactions

Lab Safety and Skills

YEAR 7



A01

CHEMISTRY SKILL
Demonstrating knowledge & understanding

A02

CHEMISTRY SKILL
Apply knowledge of scientific ideas, enquiries & techniques

A03

CHEMISTRY SKILL
Interpret, evaluate, judge & make conclusions from given information