

Chemistry Curriculum Map

KS3 AQA Science
KS4 AQA trilogy combined science. Triple science

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 lives in and beyond the classroom.

GCSE EXAM

10. Using Resources **REVISION** **Paper 1** Topics 1-5 **Paper 2** Topics 6-10

MOCK EXAM

9. Chemistry of the Atmosphere **MOCK EXAM**

ASK:
How can we tell what chemicals are in an unknown substance?
How has the Earth's atmosphere changed?

8. Chemical Analysis

7. Organic Chemistry **MOCK EXAM**

6. The Rate and Extent of Chemical Change

5. Energy changes

YEAR 11



ASK:
How are does the structure of matter affect the properties?
How do bonds affect the properties of matter?

ASK:
How do we balance equations?
How do we use quantitative chemistry to make reactions efficient?
How do use chemical reactions in the real world?

1. Atomic Structure and The Periodic Table

2. Bonding, Structure, and the Properties of Matter

3. Quantitative Chemistry

4. Chemical Changes

YEAR 10

ASK:
How can we use the periodic table?
How do metals and non-metals bond?
How can we use data to form conclusions?

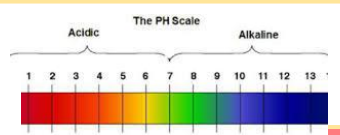
ASK:
How do we extract resources from the Earth?
What impact do humans have on the environment?
How can human impact be reduced?

The start of your first GCSE unit

Getting GCSE Ready Applied Chemistry

YEAR 9

Earth Climate Change Earth Resources



ASK:
What are the signs of a chemical reaction?
Which metals are the most reactive?
How do we treat indigestion?

ASK:
What is the Earth like inside?
What are the main structures in the universe?
What has changed about our universe?

ASK:
What is an element?
How are elements organised?
What happens to energy in chemical reactions?

Reactions Acids/Alkalis Metals/Non-metals

Earth Structure Universe

Matter Periodic Table Elements

YEAR 8



ASK:
What are materials like inside?
What gives a materials its properties?
How can we separate the components in a mixture?

Matter Particle model Separating mixtures

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