



Year  
7

**Intro to science**

Practising the skills needed to study science



**States of matter**

Solids, liquids and gases



**Mixtures and separating**

Methods to separate substances



**Recycling**

Extraction and recycling of resources



Year  
8

**KS3-KS5  
Chemistry**

**Investigations**

Creating experiments to test ideas



**Reactivity**

Basic chemical reactions



**pH**

Acids and alkalis



Year  
9

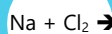
**Atoms**

Basic units of matter



**Equations**

Noting what happens in chemical reactions



**Bonding**

How atoms join to make compounds



Year  
10

**Organic**

Crude oil and derivatives



**Energy and rates**

How reactions get started and how fast



**Quantitative**

Chemical calculations



**Chemical changes**

Different types of reactions



Year  
11

**Analysis**

Testing for purity



**Atmosphere**

How our atmosphere developed



**Resources**

Using our planet's resources



**Exam skills**

Preparation for external exams



Year  
12

**Core organic chemistry**



**Periodic table and energy**



**Foundations in chemistry**



Year  
13

**Physical chemistry and transition elements**



**Organic chemistry and analysis**



**Exam skills**

Preparation for external exams



**Skills**

**Learn't:**

- Analyse patterns
- Discuss limitations
- Draw conclusions
- Present data
- Communicate ideas
- Construct explanations
- Critique claims
- Justify opinions
- Collect data
- Devise questions
- Plan variables
- Test hypotheses
- Estimate risks
- Examine consequences
- Review theories
- Interrogate sources
- Model ideas
- Calculations
- Writing chemical equations
- Safe handling of dangerous chemicals