



Course Specifications

Course Title: Separate Sciences Chemistry

Exam Board: AQA

Link to specification:

[GCSE Chemistry 8462](#)

Grading: 9-1

Course Details

What will you learn?

Year 10

Autumn

- Atomic structure
- The Periodic table
- Structure and bonding
- Chemical calculations

Spring

- Chemical changes
- Electrolysis
- Energy changes

Summer

- Rates and eqbm
- Crude oils and fuels

Year 11

Autumn

- Organic reactions
- Polymers
- Chemical Analysis
- The earth's atmosphere

Spring

- The earth's resources
- Using our resources

Summer

- Preparation for Summer exams

**How will you be assessed?****During the Course**

Year 10: Progress checks and Mid-year exams

Year 11: Progress checks and PPE 1, PPE 2

At the end of the course:

Your final grade will be determined based on the following examinations and/or coursework.

Paper 1: Topics: Atomic structure and the periodic table; Bonding, structure, and the properties of matter; Quantitative chemistry, Chemical changes; and Energy changes.

- Written exam: 1 hour 45 minutes
- Foundation and Higher Tier
- 100 marks
- 50 % of GCSE

Paper 2: Topics 6–10: The rate and extent of chemical change; Organic chemistry; Chemical analysis, Chemistry of the atmosphere; and Using resources.

- Written exam: 1 hour 45 minutes
- Foundation and Higher Tier
- 100 marks
- 50 % of GCSE

What independent work can you do?**Learn:**

- Keywords and meaning for the keywords using the glossary available on kerboodle for each topic.
- Learn the formulas for the chemical calculation topic
- Learn the reactivity series
- Use the digital textbook from kerboodle to make your notes and go over the content (pre-reading and post-reading)

RAG and Revisit:

PLCs

SPARX Science

Kerboodle interactive activities

**Explore:****Recommended Reading:**

Chemistry for Breakfast: The Amazing Science of Everyday Life

Binding Blocks: Building the Universe One Nucleus at a Time

Cambridge University Chemistry Library

Revise:

Top tips and strategies:

Know the AQA Chemistry specification and use a checklist.

Learn key definitions and scientific terms with flashcards.

Use knowledge organisers to summarise facts and formulas.

Practice past papers under timed conditions and review mark schemes.

Understand command words like describe, explain, and calculate.

Master all required practicals and related exam questions.

Revise chemistry-related maths topics (e.g., formulas, moles).

Use diagrams and visuals to aid understanding and memory.

Break complex topics into smaller parts and use real-life examples.

Plan revision with a timetable and revise consistently over time.

Utilise online resources like BBC Bitesize, Seneca Learning, and YouTube channels.

On exam day: read questions carefully, start with easy ones, show workings, manage time, and check answers.

Prepare:

Exam papers, VIP zone

Which resources should you use?**Textbooks, websites, online resources**

[Kerboodle](#) (digital textbook)

[AQA Website](#)

[Maths and Physics tutor](#)

[Seneca](#)

[VIP ZONE](#)

[Study mind for exam questions per topic](#)