



Key Stage: 4

Subject: Chemistry (Separate Science Option)

Aims of the subject:

Learn about the basic components of matter and how matter is structured.

Develop an understanding of the materials in the world around you. The way in which materials behave and how new materials are developed.

To understand how chemical reactions are important in all aspects of life on planet earth.

To understand how chemistry can be of benefit or harm to the environment and humanity itself.

GCSE Examination Board: AQA

Assessment Overview:

- Half termly assessments to assess progress.
- Terminal exams in May/June of year 11. No coursework element. (100% examination, incorporating practical skills covered throughout the duration of the course).
- Paper 1: 1 hour 45 minutes Topics 1–5: Atomic structure and the periodic table; Bonding, structure, and the properties of matter; Quantitative chemistry, Chemical changes and Energy changes.
- Paper 2: 1 hour 45 minutes Topics 6–10: The rate and extent of chemical change; Organic chemistry; Chemical analysis, Chemistry of the atmosphere and Using resources.

Year	What will I learn?	Assessment
Year 9	Term 1: Atomic structure, development of the periodic table, bonding structure and properties.	Half termly assessment. Summer mock exam

	<p>Term 2: Quantitative chemistry. How much can we make?</p> <p>Term 3: Types of chemical changes, redox reactions, acids, bases and salts.</p>	
Year 10	<p>Term 1: Chemical changes (continued), energy changes in reactions (endothermic and exothermic changes).</p> <p>Term 2: Rates of reaction, extent of chemical change (reversible reactions and dynamic equilibrium). Organic chemistry (chemistry of carbon compounds).</p> <p>Term 3: Chemical analysis techniques.</p>	<p>Half termly assessment Summer mock exam</p>
Year 11	<p>Term 1: Chemistry of the atmosphere</p> <p>Term 2: Using resources</p> <p>Term 3: Revision and consolidation.</p>	<p>Half termly assessments and formal summer examinations.</p>

Extra-curricular opportunities:

Chance to participate in STEM events and other opportunities that arise throughout the year.

How you can support your child's progress

Ask them to tell you what they have learnt following a lesson.

Question your child using their text book/revision guide.

Support your child in blocking off an hour a week to revisit past content (this is in addition to homework).

Encourage your child to revise their work regularly. Question them on what they have studied and learned.

Revision materials can be found online by using our kerboodle resources, published revision guides and other sources such as bbc bitesize.