Curriculum Content

The **National 4 Chemistry** course provides students with a strong foundation in the fundamental principles of chemistry, equipping them with essential scientific skills and knowledge that are highly relevant to modern life and industry.

Chemical Changes and Structure:

Investigating the building blocks of matter, students learn about atomic structure, bonding, and the reactions that shape the world around us, from acids and alkalis to metals and electrolysis.

Nature's Chemistry:

Exploring the chemistry of fuels, everyday consumer products, and the vital role of carbon compounds, students gain insight into the chemical processes that underpin environmental sustainability and industry.

Chemistry in Society:

Examining the real-world applications of chemistry, students discover how materials are developed and used in technology, medicine, and engineering, fostering an appreciation for chemistry's role in innovation and progress.

Assessment

Formative Assessment

- Quizzes
- Research Tasks
- Posters
- Presentations
- Practical Tasks
- Class Discussions
- Class Work
- Mini Whiteboards
- Plenaries
- Peer/Self Assessment

Summative Assessment

Assessment is based on a combination of coursework, including practical activities, end of unit assessments and an end-of-course assessment.

In addition to theoretical knowledge, the course emphasizes **practical experiments**, **problem-solving**, and **critical thinking**, ensuring students develop analytical skills that are valuable in a wide range of careers. With a strong focus on real-world applications, the **National 4 Chemistry** course helps students build confidence in scientific inquiry and prepares them for further study or vocational pathways in STEM fields.

Click the links to learn more about formative and summative assessment approaches:

⇒ Updated guidance on assessment within the broad general education

⇒ Bing Videos

Meta-skills

Self-management	Focusing	
	Integrity	
	Adapting	
	Initiative	
Social Intelligence	Communicating	✓
	Feeling	
	Collaborating	
	Leading	
Innovation	Curiosity	
	Sense-making	✓
	Creativity	
	Critical thinking	✓

To find out more detail about the meta skills learned in this curriculum area, please view the meta skills section on our school website.

Kindness | Respect | Ambition

UNCRC

Celebrating Success

Staff List

Mr R King (PT)

Mr Paul McNeil (Technician)

Add subject specific/photos (examples of work/pupils)

WINCHBURGH ACADEMY

BGE Chemistry

S3 Curriculum Overview