

CHEMISTRY: NATIONAL 4

**3 UNITS: CHEMICAL CHANGES AND STRUCTURE
NATURE'S CHEMISTRY
CHEMISTRY IN SOCIETY
+ ADDED VALUE UNIT: CHEMISTRY ASSIGNMENT**



Course Entry Requirements

Pupils should consider this course if they have achieved Level 3 Science or have any other Science qualification at National 4.

What skills will my child develop?

- application of knowledge and understanding of chemistry
- scientific inquiry and investigation skills
- scientific analytical thinking skills
- the ability to use technology, equipment and materials
- questioning and independent thinking
- problem-solving in a chemistry context
- using and understanding scientific literacy in everyday contexts
- planning experiments
- recording observations
- collecting and analysing data
- reviewing and re-designing research methods
- evaluating
- communicating findings

WHAT WILL MY CHILD EXPERIENCE DURING THE COURSE?

- Active, collaborative and independent learning
- A blend of classroom approaches: practical tasks (experiments and open-ended investigations); whole class, small group or one to one discussions; direct interactive teaching
- Space for personalisation and choice
- The Added Value Unit (Assignment) allows learners to choose their research topic and present their findings
- Collaborative learning: partnerships with learners in other curriculum areas; links with businesses, employers, organisations
- Applying learning to familiar situations
- Embedding literacy skills: selecting and assessing information, presenting findings; evaluating; debating; listening; reading; writing
- Embedding numeracy skills: recording and displaying data in graphs/ tables; accuracy; interpreting and assessing data; using technologies.

ASSESSMENT

- To gain National 4, learners must pass all Units and the Assignment
- Units are assessed as pass or fail by the school/centre (following SQA external quality assurance to meet national standards)
- Unit Assessment (or 'evidence of learning') could be digital or spoken presentations, posters, leaflets, extended writing, notes or podcasts. Learners may use these to build a portfolio to show their progress through the Units.

Progression National 4 progresses onto;

- National 5 in the same course or
- National 4 in any other science course