

Chemistry

National 5

Progression through Chemistry

Higher
Chemistry

A pass at National 5 level would give the foundations required for studying the subject at Higher level.

Course Content

Chemical changes and structure

- rates of reaction
- atomic structure and bonding related to properties of materials
- formulae and reacting quantities
- acids and bases

Nature's chemistry

- homologous series
- everyday consumer products
- energy from fuels

Chemistry in society

- metals
- plastics
- fertilisers
- nuclear chemistry
- chemical analysis

Skills Developed

- demonstrating knowledge and understanding of chemistry by making accurate statements
- demonstrating knowledge and understanding of chemistry by describing information and providing explanations and integrating knowledge
- applying knowledge of chemistry to new situations, interpreting information and solving problems
- planning or designing experiments to test given hypotheses or to illustrate particular effects, including safety measures
- carrying out experimental procedures safely
- selecting information from a variety of sources
- presenting information appropriately in a variety of forms
- processing information (using calculations and units, where appropriate)
- making predictions and generalisations based on evidence/information
- drawing valid conclusions and giving explanations supported by evidence/justification
- evaluating experimental procedures
- suggesting improvements to experiments/practical investigations
- communicating findings/information

Assessment

Written Exam

2 hours, 30 minutes, 80%

Practical Assignment

20%

Related Careers

A qualification in Chemistry can lead to careers in medicine, pharmacy, scientific research, environmental protection, engineering and scientific manufacturing (e.g. fragrances, cosmetics).

Cindy Crawford, Margaret Thatcher, Dennis Bergkamp and Angela Merkel all have degrees relating to Chemistry!

