

CHEMISTRY DEPARTMENT

S3/4 National 4 Chemistry guide

Entry Requirements

Entry to this course is at the discretion of the Science faculty. This is to make certain that you are ready for the requirements of the course.

The Course Content

The course consists of three units (40 hours each):

Unit 1 Chemical Changes and Structure	Unit 2 Nature's Chemistry	Unit 3 Chemistry in Society
Subtopics: <ul style="list-style-type: none">• Rates of reaction• Atomic Structure• Bonding• Formulae and the mole• Acids and Bases	Subtopics: <ul style="list-style-type: none">• Hydrocarbons.• Consumer products	Subtopics: <ul style="list-style-type: none">• Metals• Plastics• Fertilisers• Nuclear Chemistry

Assessment

There are several pieces of assessment during this course.

- 1) Outcome 1 –
 - **Assessment standards 1.1-1.5 – ‘Investigation’**
 - You will conduct an investigation and produce an accurate scientific report.
- 2) Outcome 2 –
 - **Assessment standard 2.1/2.4 ‘Key Area Test’ (KAT).**
 - This assesses knowledge and understanding as well as problem solving skills. The problem solving skills covered are selecting, processing and predicting. These are completed in class and marked by staff to SQA exam board standards.
 - **Assessment standard 2.2/2.3 ‘Short report’.**
 - You will research an area of chemistry and produce a short report (50-80 words) that discusses your findings in relation to its effect on society and the environment
- 3) Assignment
 - You are required to research an aspect of chemistry and write about its effect on society and the environment. You are expected to select, analyse and present data in your work as well as to reference where your information came from.
 - This work is needed to pass the course.

There is NO final exam for this course.

You must pass all forms of assessment before you can receive a course award.

In S6, you could have an alternative Pathway to Higher Chemistry

