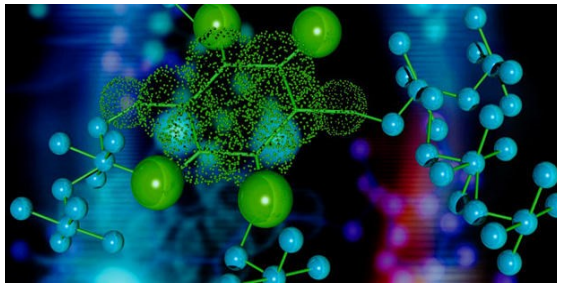
Holsworthy High School

Science Faculty

CHEMISTRY



Course Outline

Chemistry is one of the STEM subjects offered at Holsworthy High School. This course provides students with the opportunity to develop their knowledge, understanding and skills in relation to properties and structures of matter and a variety of chemical reactions incorporating organic compounds and acid/base equilibrium reactions.

Year 11 has 4 modules

- Properties and Structure of Matter
- Introduction to Quantitative Chemistry
- Reactive Chemistry
- Drivers of Reactions

HSC has 4 modules

- Equilibrium and Acid Reactions
- Acid/base Reactions
- Organic Chemistry
- Applying Chemical Ideas

Assessment

Both Year 11 and Year 12 follow the same assessment pattern of just 3 tasks.

- A Yearly Exam - worth 30%.
- A practical task - adds another 30%
- A depth study - the remaining 40%.

Pattern of Study

Chemistry can be studied with Biology and Physics.

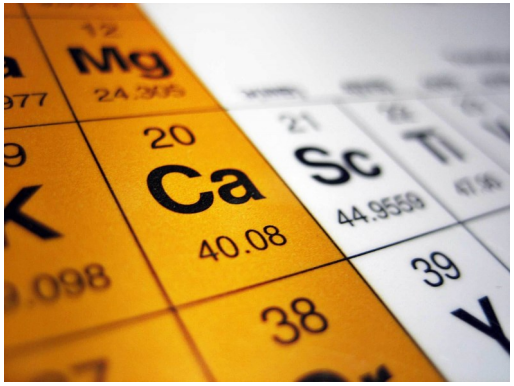
Studying Chemistry with Food Technology and Physics can be beneficial as there is some shared content in these courses that can improve students understanding of some concepts.

Practical Work

There is mandatory practical work in Year 11 and Year 12

ATAR

Chemistry is a full 2 unit Science course. It can be advantageous for students seeking maximum ATAR scores to include Chemistry in their pattern of study.



Why choose Chemistry?

Australia's Chief Scientist told the Federal Parliament, "Science is infrastructure and it is critical to our future. We must align our scientific effort to the national interest; focus on areas of particular importance or need; and do it on a scale that will make a difference to Australia and a changing world." His paper, *STEM: Australia's Future* focuses on:

- Building competitiveness
- Supporting high quality education and training
- Maximising research potential
- Strengthening international engagement

Chemistry is a 2 unit Science course that satisfies recommended studies requirements of many university courses. It is a highly sought after skill particularly in manufacturing.

Studying Chemistry leads to a broad range of career options :

- Medical
- Dietician and Nutrition
- Pharmacy
- Forensics
- Industrial Engineer
- Mining
- Metallurgy
- Winemaking
- Biochemistry
- Toxicology

SCIENCE FACULTY

Ms J. Gorgovski - Head Teacher (Relieving)
Mr K. MacDonald
Mr S. Fernadez
Mr R. McCafferty
Ms E. Sheldon
Mr I. Lian