

Chemistry

LEVEL 2

Credits: 20 - 23 (10 internal) actual credit totals are at the discretion of the teacher

Leads onto: Level 3 Chemistry and Applied Science

Level 2 Chemistry will look at the building blocks of materials (elements, atoms and molecules), and the compounds they form. It involves chemical calculations, energy changes and chemical reactions, describes how properties of substances are related to their bonding, and relates to their use. Experimental work is a large component of this course.

Chemistry is essential for most science careers including health and medicine, teaching, technician in laboratories, nursing and industries such as mining, forestry, fishing and agriculture. Level 2 Chemistry is complemented by Physics and/or Biology, and Mathematics is recommended.

Topics include

- Atomic Structure and Bonding and Energy
- Carbon Compounds
- Precipitation Reactions
- Volumetric Analysis
- Acids and Bases
- Chemical Reactivity and Thermochemistry
- Oxidation and Reduction

Course Cost: Workbook with CD (approximately \$35.00).

Teacher Contact: Dr McMillan

Chemistry

LEVEL 3

Credits: 20-25 (10 internal) actual credit totals are at the discretion of the teacher

Leads onto: Tertiary study and applied sciences careers

Level 3 Chemistry builds on concepts studied at Level 2. These concepts require a good understanding of Level 2 Mathematics to enable calculation of quantities. Mathematics with Statistics at Level 3 is an advantage. Experimental work and analysis of results is a large component of this course.

Chemistry is essential for most science careers including health and medicine, teaching, laboratory technician, nursing and industries such as food and fabrics technology, mining, forestry, fishing and agriculture.

Course of Study

- Atomic Structure, Bonding and Thermochemistry
- Spectroscopy
- Properties of Organic Compounds
- Equilibrium Principles and Aqueous Solution Chemistry
- Redox Reactions and Electrochemistry
- Quantitative Analysis

Course costs: Workbook \$35.00

Teacher Contact: Dr McMillan