

Science

LEVEL 1

Credits: 18 - 24 (12 internal) actual credits totals are at the discretion of the teacher

Leads onto: Level 2-3 Applied Sciences, Biology, Chemistry, and Physics

Level 1 Science comprises a broad range of topics focussed on linking experimental observation with cellular biology, body systems, particle theory of matter, energy transformations and the interactions of atoms and molecules. Skills are also developed in experimental design and analysis.

Course of Study

- Genetics
- Acids and bases
- Electricity
- Chemical reactions or carbon compounds
- Mechanics
- Life processes
- Experimental design, data collection and evaluation

Course costs: Workbook approximately \$30.00

Teacher Contact: Dr McMillan

Applied Science

LEVEL 1

Credits: 18 - 24 (all internal) – actual credits totals are at the discretion of the teacher

Leads onto: Level 2 Applied Sciences, Biology, Chemistry, and Physics

Level 1 Applied Science focusses on developing skills in measurement and in understanding how science processes affect the world around us. The course in Applied Science is a good grounding for skills based careers in many different fields.

Course of Study

- Plant propagation and maintenance
- Soils, rock, minerals and geological hazards
- Electrical circuits and energy
- Chemical reactions and matter in contexts of materials, and health and food products
- Life processes and the human body
- Experimental design, data collection and evaluation

Course costs: Up to \$30 for Workbooks

Science

LEVEL 3

Credits: 18-22 (all internal) actual credit totals are at the discretion of the teacher

Leads onto: Applied science careers

This is a flexible course designed to allow greater student choice and applying knowledge across different subjects and contexts. Assessment against a mixture of NCEA Level 2 and Level 3 achievement and unit standards will be possible to meet individual student career needs and vocational pathways.

Students will be expected to apply scientific knowledge, learn new practical skills and analyse human interaction with the environment. The course will involve field work.

This course will NOT allow direct access to university because of the mixture of topics and assessment on offer. However, it is the subject to take if you have an interest in Science, but do not want to specialize just yet.

Course of Study:

- Physical and chemical monitoring of the environment
- Hydrology
- Plant processes
- Microscopy
- Geographical Information Systems (Science context)
- Project management and sustainability

Course costs: Up to \$30 for Workbooks