



Learning Outcomes

To use the specific subject skills of focusing and planning investigations, information gathering of data, processing and interpreting data, and reporting collected and /or processed data.

To understand basic Science concepts from the areas of Living World and Material World, and to apply the knowledge to new situations.

Content

Investigation: You will carry out practical investigations by planning the investigation, collecting and processing data, and interpreting and reporting the findings.

Research: Research and describe the affect of the brush tail possum on the native plants and animals of New Zealand.

Biology: Gain knowledge and understanding of biological ideas relating to how humans use and are affected by micro-organisms and how genetic information is transferred. Demonstrate an understanding of plant and animal adaptations and the relationships that exist in a biological community.

Chemistry: Describe simple physical and chemical changes and describe how factors affect the rate of chemical reactions. Demonstrate knowledge of matter.

Assessment

This subject contains 2 Achievement Standards, 7 Unit Standards and **21 credits** for NCEA Level 1.

Internal Achievement Standards

More details will be given on each achievement standard as it is assessed.

- 1. Science 90186, version 3 4 credits**
Carry out a practical investigation with direction.

This practical assessment will take place over three periods and will take place the week of September 12th.

All work will be completed in class.

There will **not** be a reassessment opportunity.

- 2. Biology 90165, version 3 2 credits**
Describe the control of an introduced species that affects native species
This involves research into the affect of the brush-tail possum on native species and then a written report to be done in class under examination conditions. This assessment will take place over 4 periods from October 17th.
There will **not** be a reassessment opportunity.

Internal Unit Standards

There will be a re-assessment opportunity for all of these unit standards. The re-assessment will take place in the week following the original assessment.

1. Biology 18978, version 1 2 credits

Demonstrate knowledge of biotechnology.

This section looks at features and uses of micro-organisms. This is a written assessment which will take place in class the week of the 2nd of March.

2. Science 18973, version 2 2 credits

Demonstrate knowledge of matter

This written assessment will take place in class the week beginning the 30th of April

3. Biology 8923, version 3 3 credits

Describe mechanisms for the transfer of genetic information.

This is a written assessment which will take place the week beginning 25th of May

4. Chemistry 18974, version 1 2 credits

Demonstrate knowledge of chemical change.

This is a written assessment and will take place the week beginning 22nd of June.

5. Biology 18969, version 1 2 credits

Demonstrate knowledge of the characteristics of living things, organs and organ systems.

This is a written assessment and will take place the week beginning 15th of August.

6. Biology 18970, version 3 2 credits

Demonstrate knowledge of adaptations and relationships in a community.

This is a written assessment and will take place the week beginning 31st of October.

7. Science 18988 Version 2. 2 credits

Interpret information presented in tables, diagrams and graphs to answer given questions.

This is a written assessment and will take place the week beginning 7th of November.