Sciences Matrix - Level 1

Physical World	Material World	Living World	Planet Earth & Beyond
Science 1.1 Demonstrate understanding of aspects of mechanics in one dimension. 4 credits External	**Science 1.5** Demonstrate an understanding of aspects of acids and bases. 4 credits External	**Science 1.9** Demonstrate understanding of genetic variation. 4 credits External	**Science 1.13** Demonstrate understanding of the formation of surface features in the South West Pacific. 4 credits Internal
Science 1.2 Demonstrate understanding of the implications of electricity and magnetism in everyday life. 4 credits Internal	**Science 1.6** Demonstrate an understanding of the impact of carbon compounds as fuels. 4 credits Internal	**Science 1.10** Investigate life processes and the environmental factors that affect them. 4 credits Internal	**Science 1.14** Demonstrate understanding of carbon cycling. 4 credits Internal
Science 1.3 Demonstrate understanding of the implications of wave behaviour in everyday life. 4 credits Internal	**Science 1.7** Investigate the implications of metal properties. 4 credits Internal	**Science 1.11** Investigate interactions between humans and micro-organisms. 4 credits Internal	**Science 1.15** Demonstrate understanding of the effect on planet Earth of astronomical cycles. 4 credits Internal
Science 1.4 Demonstrate understanding of the implications of heat in everyday life. 4 credits Internal	**Science 1.8** Investigate selected chemical reactions. 4 credits Internal	**Science 1.12** Investigate the biological impact of events on a New Zealand ecosystem. 4 credits Internal	**Science 1.16** Report on an investigation into an astronomical or Earth science event. 4 credits Internal

Physics	Chemistry	Biology
Physics 1.1 Carry out a practical physics investigation, with direction, that leads to a linear relationship. 4 credits Internal	**Chemistry 1.1** Carry out a chemistry practical investigation, with direction. 4 credits Internal	**Biology 1.1** Carry out an investigation in a biology context. 4 credits Internal
Physics 1.2 Demonstrate understanding of the physics of an application. 2 credits Internal	**Chemistry 1.2** Demonstrate understanding of the chemistry in a technological application. 2 credits Internal	**Biology 1.2** Report on a biological issue. 2 credits Internal
Physics 1.3 Demonstrate understanding of aspects of electricity and magnetism. 4 credits External	**Chemistry 1.3** Demonstrate understanding of aspects of hydrocarbons. 4 credits External	**Biology 1.3** Demonstrate understanding of biological ideas relating to micro-organisms. 4 credits External
Physics 1.4 Demonstrate understanding of aspects of wave behaviour. 4 credits External	**Chemistry 1.4** Demonstrate understanding of aspects of selected elements. 4 credits External	**Biology 1.4** Demonstrate understanding of the life cycle of flowering plants. 4 credits External
Physics 1.5 Demonstrate understanding of aspects of heat. 4 credits External	**Chemistry 1.5** Demonstrate understanding of chemical reactions. 4 credits External	**Biology 1.5** Demonstrate understanding of an animal as a consumer. 4 credits External

There will be exclusions between:

- S1.02 and P1.3
- S1.03 and P1.4
- S1.04 and P1.5
- S1.06 and C1.3
- S1.07 and C1.4
- S1.08 and C1.5
- S1.11 and B1.3