



Plant Unit Links to New Zealand Curriculum

Science	Learning Outcomes
Nature of science	<p>Investigate and develop simple explanations.</p> <p>Develop investigations extending science knowledge.</p> <p>Understand relationships between investigations and scientific theories.</p> <p>Ask questions, find evidence, and explore models.</p>
Communicating in science	<p>Use scientific symbols, conventions, and vocabulary.</p> <p>Use accepted science knowledge, vocabulary, symbols, and conventions when evaluating accounts of the natural world.</p>
Living World: Life processes	<p>Identify key structural features and functions involved in the life-processes of plants and animals.</p> <p>Recognize that life processes common to all living things occur in different ways.</p> <p>Explain how living things are suited to their particular habitat and how they respond to environmental changes.</p> <p>Investigate environmental factors that affect these processes.</p> <p>Understand the relationship between organisms and their environment.</p> <p>Explore the evolutionary processes resulting in the diversity of life and appreciate the impact of humans within these processes.</p> <p>Describe the organization of life at a cellular level.</p> <p>Describe the processes of genetic information being passed from one generation to the next.</p>
Living World Ecology	<p>Investigate the interdependence of living things in an ecosystem.</p> <p>Explore ecological distribution patterns and explain causes.</p> <p>Explain how the interaction between ecological factors and natural selection leads to genetic changes within populations.</p>
Evolution	<p>Explore patterns in the inheritance of genetically controlled characteristics.</p> <p>Explain the importance of variation in a changing environment.</p> <p>Explain how the interaction between ecological factors and Natural selection leads to genetic changes within a population.</p>
Plant Earth and Beyond: Earth systems	<p>Explain how living things are suited to their particular habitat and respond to environmental changes.</p>
Physical world:	<p>Identify and describe the effect of forces on the motion of objects; identify and describe everyday examples of sources of energy, forms of energy, and energy transformations.</p> <p>Explore a technological or biological application of physics.</p> <p>Investigate trends and relationships in physical phenomena in</p>

the area of mechanics.
 Demonstrate an understanding of physical phenomena and concepts by explaining and solving questions and problems.
 Investigate how physics knowledge is used in a technological or biological application.

Social Studies

Learning outcomes

Understand people make decisions about the use of resources.

English

Learning outcomes

Listening, Reading, and Viewing

Integrate information and prior knowledge.
 Develop critical thinking skills.
 Identify and think about main ideas.
 Develop an increased vocabulary.
 Make meaning by understanding sophisticated ideas.

Speaking, Writing, and Presenting

Identify, form, and express ideas.
 Creating a range of texts with an awareness of purpose.
 Develop a personal voice.
 Use oral, written, and visual language features.
 Use a range of vocabulary.
 Use increasing vocabulary to communicate precise meaning.
 Create a range of increasingly coherent, varied, and complex texts by integrating sources of information.
 Reflect on the production of their own text: monitor and self-evaluate progress, articulate on their learning with confidence.
 Develop, communicate, and sustain increasingly sophisticated ideas, information, and understandings.

The Arts

Learning Outcomes

Visual Arts

Explore and use art-making conventions.
 Develop visual ideas, in response to motivations, observation, and imagination.
 Apply knowledge of elements, and principles through the use of materials and processes.
 Explore and describe ways meaning can be communicated.
 Consider contexts underlying their own and other's work.
 Apply understanding from research into established practice to extend skills for particular art-making purposes.
 Extend skills, in a range of materials, techniques, and technologies.
 Develop and revisit visual ideas, in response to a variety of

motivations, observations, and imagination.
Sequence and link ideas systematically using observation.

Technology**Learning Outcomes**

Understand how society and the environment are influenced by technology.
Understand that technology is purposeful intervention through design.
Understand that functional models are used to explore, test, and evaluate design concepts for potential outcomes and that prototyping is used to test a technological outcome.
Describe the nature of an outcome, explaining how it addresses a need or an opportunity.
Describe the key attributes that enable development and evaluation of an outcome.
Understand how technological development expands human possibilities and how technology draws on knowledge from a wide range of disciplines.

Maths and Statistics**Learning Outcomes****Geometry and measurement**

Represent objects with drawings and models.

