

Achievement Standard

Subject Reference Agricultural and Horticultural Science 1.1

Title Demonstrate understanding of how a life process is managed in a primary production system

Level 1 **Credits** 6 **Assessment** Internal

Subfield Science

Domain Agricultural and Horticultural Science

Status Approved **Status date** December 2023

Planned review date December 2028 **Date version published** December 2023

Purpose Statement

Students are able to demonstrate understanding of how a life process is managed in a primary production system.

Achievement Criteria

| Achievement | Achievement with Merit | Achievement with Excellence |
|---|--|---|
| <ul style="list-style-type: none"> Demonstrate understanding of how a life process is managed in a primary production system | <ul style="list-style-type: none"> Explain how a life process is managed in a primary production system | <ul style="list-style-type: none"> Evaluate how a life process is managed in a primary production system |

Explanatory Notes

1 *Demonstrate understanding of how a life process is managed in a primary production system* involves:

- describing a life process that is managed in a primary production system
- describing a relevant management practice that influences the life process, using supporting evidence.

Explain how a life process is managed in a primary production system involves:

- explaining how the life process is influenced by the management practice.

Evaluate how a life process is managed in a primary production system involves:

- evaluating how the life process is influenced by the management practice to improve production.

- 2 As part of the evidence provided, students must show understanding of a Māori concept in the context of how a life process is managed in a primary production system.

Examples of a Māori concept include:

- tūhononga
- manaakitanga
- tiakitanga.

- 3 A *life process* is any of the basic physiological functions of the plant or animal.

Examples of a life process include:

- photosynthesis
- nutrition
- response to disease.

- 4 A *primary production system* is a sum of all components, including the growing environment and management practices, that work together in the production of a primary product.

Examples of a primary production system include:

- an orchard
- an aquaculture farm
- a family or community garden
- a dairy farm.

- 5 A *management practice* is an action that is part of production.

Examples of a management practice include:

- fertiliser application
- irrigation
- drenching.

- 6 Refer to the NCEA [glossary](#) for Māori, Pacific, and further subject-specific terms and concepts.

- 7 This achievement standard is derived from the Science Learning Area at Level 6 of *The New Zealand Curriculum*: Learning Media, Ministry of Education, 2007.

Replacement Information

This achievement standard and AS91929-AS91931 replaced AS90155, AS90157, AS90160, and AS90918-AS90924.

Quality Assurance

- 1 Schools and institutions must have been granted consent to assess by NZQA before they can register credits from assessment against achievement standards.
- 2 Schools and institutions with consent to assess must engage with the moderation system that applies to those achievement standards.

Consent and Moderation Requirements (CMR) reference 0233
