

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	6AssessmentInternal
Subfield	Science		
Domain	Agricultural and Horticultural Science		
Status	Approved	Status date	September 2024
Planned review date	December 2028	Date version published	December 2024

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

- 1Demonstrate 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.

- 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
