

Title	Complete an investigation into the ecological niche of a plant species, with guidance		
Level	3	Credits	4

Purpose	People credited with this unit standard are able to, with guidance; describe the ecological niche of a plant species; and investigate and report a variable of a plant species' ecological niche.
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Classification	Science > Biology
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Available grade	Achieved
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Guidance Information

1 Definitions

Ecological niche is defined as the role of an organism in a community in terms of the habitat it occupies, its interactions with other organisms, and its effect on the environment.

Adaptive features types refers to structural, behavioural/response, and physiological.

2 *With guidance* means the assessor supports the candidate throughout the investigation; however the investigation is candidate driven. The assessor may set the parameters and provide general information. The assessor will monitor candidate progress, solve problems through questioning the candidate, provide resource suggestions, and suggest possible new directions in the investigation. Scientific reporting guidelines should be provided that set the procedures.

3 An investigation is an activity which includes: a statement of the purpose; testable question or prediction; collecting, recording, and processing data relevant to the purpose; and interpreting and reporting the findings in a scientific report. The candidate will collect primary data which may relate to biotic and/or abiotic factors. The nature of the investigation could be the manipulation of a variable (fair test), the investigation of a pattern or relationship, or the use of simple models. If a variable is manipulated, or a relationship investigated it may or may not have an effect on the adaptive feature/s of the plant species.

Outcomes and performance criteria

Outcome 1

Describe the ecological niche of a plant species.

Performance criteria

- 1.1 The physical habitat is described in relation to the ecological niche of a plant species.
- 1.2 The adaptive features of the plant species are described in relation to the plant species' habitat and/or niche.
- Range evidence of at least two different types of adaptive features is required.

Outcome 2

Investigate and report a variable of a plant species' ecological niche.

Performance criteria

- 2.1 A variable is manipulated and/or measured to establish the effect of the variable on one adaptive feature.
- 2.2 A valid conclusion is made which is supported by the processed data.
- 2.3 The formal scientific report is presented in a form consistent with the investigation and report procedures.

Planned review date	31 December 2020
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Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	21 December 1995	31 December 2013
Review	2	31 October 1996	31 December 2013
Revision	3	7 July 1999	31 December 2013
Revision	4	13 March 2003	31 December 2013
Review	5	20 September 2012	N/A
Rollover and Revision	6	15 June 2017	N/A

Consent and Moderation Requirements (CMR) reference	0226
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

Comments on this unit standard

Please contact NZQA National Qualifications Services nqs@nzqa.govt.nz if you wish to suggest changes to the content of this unit standard.