

Title	Demonstrate knowledge of weather processes and their effects in New Zealand		
Level	3	Credits	2

Purpose	<p>This unit standard is intended for people who work in recreation in the outdoors and require an understanding of weather and its impact in the New Zealand environment.</p> <p>People credited with this unit standard are able to: demonstrate knowledge of global air and water movements; describe weather features which result from the movement of air and water; and explain major influences on New Zealand's weather.</p>
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Classification	Outdoor Recreation > Weather Interpretation in the Outdoors
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Available grade	Achieved
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Guidance Information

None.

Outcomes and performance criteria

Outcome 1

Demonstrate knowledge of global air and water movements.

Performance criteria

- 1.1 High and low pressure systems are described in terms of convergence, divergence and rotation within the lower atmosphere.
- 1.2 The effect of unequal heating of the earth's surface is described in terms of global atmospheric circulation.
- 1.3 The movement of water through the environment is described in relation to the water cycle.
- 1.4 Seasonal impacts, equinox and solstice are described in relation to the passage and position of the Earth around the Sun.

Outcome 2

Describe weather features which result from the movement of air and water.

Performance criteria

- 2.1 The processes that cause Katabatic and Anabatic winds and sea breezes are described.
- 2.2 The vertical movement of air is described in terms of changes in temperature and pressure.
- 2.3 The formation of clouds and fog is explained in terms of humidity, temperature, wind and lifting processes.
- 2.4 Types of low, medium and high level clouds and the atmospheric processes that lead to their formation are identified.

Outcome 3

Explain major influences on New Zealand’s weather.

Performance criteria

- 3.1 Explanation identifies global influences on the origins of air masses.
- 3.2 Explanation identifies geographic influences on New Zealand weather.
 - Range geographic influences include but are not limited to – large body of water, mountains, valleys, global location, orientation of land forms.
- 3.3 Explanation identifies the impact of seasonal variations on New Zealand weather patterns.
 - Range weather patterns include but are not limited to – wind direction and speed, precipitation, sunshine hours, temperature.

Replacement information	<p>This unit standard and unit standard 20159 replaced unit standard 435.</p> <p>This unit standard was replaced by unit standard 32876.</p>
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This unit standard is expiring. Assessment against the standard must take place by the last date for assessment set out below.

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	29 October 2004	31 December 2023
Revision	2	26 January 2007	31 December 2023
Review	3	20 August 2010	31 December 2023
Review	4	28 October 2021	31 December 2023

Consent and Moderation Requirements (CMR) reference

0099

This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.