

Achievement Standard

Subject Reference	Earth and Space Science 2.5		
Title	Demonstrate understanding of the causes of extreme Earth events in New Zealand		
Level	2	Credits	4
		Assessment	External
Subfield	Science		
Domain	Earth and Space Science		
Status	Registered	Status date	17 November 2011
Planned review date	31 December 2020	Date version published	20 November 2014

This achievement standard involves demonstrating understanding of the causes of extreme Earth events in New Zealand.

Achievement Criteria

Achievement	Achievement with Merit	Achievement with Excellence
<ul style="list-style-type: none"> Demonstrate understanding of the causes of extreme Earth events in New Zealand. 	<ul style="list-style-type: none"> Demonstrate in-depth understanding of the causes of extreme Earth events in New Zealand. 	<ul style="list-style-type: none"> Demonstrate comprehensive understanding of the causes of extreme Earth events in New Zealand.

Explanatory Notes

- This achievement standard is derived from *The New Zealand Curriculum*, Learning Media, Ministry of Education, 2007, Level 7 Planet Earth and Beyond achievement objective: Earth Systems and Interacting Systems; and Nature of Science achievement objectives: Understanding about Science and Communicating in Science; and is related to the material in the *Teaching and Learning Guide for Science*, Ministry of Education, 2010 at <http://seniorsecondary.tki.org.nz>.

This standard is also derived from Te Marautanga o Aotearoa. For details of Te Marautanga o Aotearoa achievement objectives to which this standard relates, see the [Papa Whakaako](#) for the relevant learning area.

- Demonstrate understanding* involves providing the characteristics of extreme Earth events and describing their causes.

Demonstrate in-depth understanding involves explaining the causes of extreme Earth events in terms of processes that occur in the geosphere, hydrosphere, biosphere and/or atmosphere.

Demonstrate comprehensive understanding involves explaining the causes of extreme Earth events in terms of the inter-connecting processes that occur in the geosphere, hydrosphere, biosphere and/or atmosphere.

- 3 *In New Zealand* refers to geographical New Zealand and its continental shelf area.
 - 4 Extreme Earth events will be selected from:
 - earthquake events
 - volcanic events
 - tsunamis.
 - 5 Assessment Specifications for this achievement standard can be accessed through the Science Resources page found at <http://www.nzqa.govt.nz/qualifications-standards/qualifications/ncea/ncea-subject-resources/>.
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Quality Assurance

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

Consent and Moderation Requirements (CMR) reference

0233