

Achievement Standard

Subject Reference	Generic Technology 2.9		
Title	Demonstrate understanding of the nature of technological outcomes		
Level	2	Credits	4
		Assessment	Internal
Subfield	Technology		
Domain	Generic Technology		
Status	Registered	Status date	17 November 2011
Planned review date	31 December 2014	Date version published	17 November 2011

This achievement standard involves demonstrating understanding of the nature of technological outcomes.

Achievement Criteria

Achievement	Achievement with Merit	Achievement with Excellence
<ul style="list-style-type: none"> Demonstrate understanding of the nature of technological outcomes. 	<ul style="list-style-type: none"> Demonstrate in-depth understanding of the nature of technological outcomes. 	<ul style="list-style-type: none"> Demonstrate comprehensive understanding of the nature of technological outcomes.

Explanatory Notes

- This achievement standard is derived from the Level 7 achievement objectives from the Technology learning area in *The New Zealand Curriculum*, Learning Media, Ministry of Education, 2007, and is related to the material in the *Teaching and Learning Guide for Technology*, Ministry of Education, 2010 at <http://seniorsecondary.tki.org.nz>.

Appropriate reference information is available in *Safety and Technology Education: A Guidance Manual for New Zealand Schools*, Learning Media, Ministry of Education, 1998; and the Health and Safety in Employment Act 1992, and in the *Technology Curriculum Support*, October 2007 that can be found at <http://www.techlink.org.nz/curriculum-support/papers/nature/char-tech-out/index.htm>.

Further information can be found at <http://www.techlink.org.nz>.

- 2 *Demonstrate understanding of the nature of technological outcomes* involves:
- explaining design elements as they relate to the physical and/or functional attributes of a technological outcome
 - explaining how the physical and functional attributes contributed to the overall nature of a technological outcome
 - explaining how design elements appear to have been prioritised in a technological outcome.

Demonstrate in-depth understanding of the nature of technological outcomes involves:

- explaining the fitness for purpose of a technological outcome as related to its physical and functional nature and the environment where it is located.

Demonstrate comprehensive understanding of the nature of technological outcomes involves:

- discussing how the fitness for purpose of a technological outcome is related to its physical and functional nature and the environment where it is located.

- 3 The *environment* refers to both the physical and social environment.
- 4 Design elements related to physical nature may include but are not limited to: movement, pattern, rhythm, proportion, balance, harmony, contrast, style, texture, and colour.
- 5 Design elements related to functional nature may include but are not limited to: strength and durability, safety, stability, efficiency, reliability, user-friendliness, ergonomic fit, texture, viscosity, consistency, structure, nutritional value, and taste.
- 6 The *nature of a technological outcome* refers to its combined physical and functional nature. Examples of the overall nature of a technological outcome may include but are not limited to: Gothic style ball-gown, office chair, takeaway food, portable computer, and digital camera.
- 7 Conditions of Assessment related to this achievement standard can be found at www.tki.org.nz/e/community/ncea/conditions-assessment.php.
-

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