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 2020   **Date version published**   17 November 2016

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

Achievement Criteria

Achievement	Achievement with Merit	Achievement with Excellence
• Demonstrate understanding of the nature of technological outcomes.	• Demonstrate in-depth understanding of the nature of technological outcomes.	• Demonstrate comprehensive understanding of the nature of technological outcomes.

Explanatory Notes

1   This achievement standard is derived from Level 7 of 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 at http://seniorsecondary.tki.org.nz.

Further information can be found at http://www.technology.tki.org.nz/.

Appropriate reference information is available in *Safety and Technology Education: A Guidance Manual for New Zealand Schools,* Ministry of Education at http://technology.tki.org.nz/Curriculum-support/Safety-and-Technology-Education, and the Health and Safety at Work Act 2015.

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.

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 http://ncea.tki.org.nz/Resources-for-Internally-Assessed-Achievement-Standards.

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