Number AS91048 Version 2 Page 1 of 2

## **Achievement Standard**

**Subject Reference** Generic Technology 1.5

Title Demonstrate understanding of how technological modelling supports

decision-making

Level 1 Credits 4 Assessment External

**Subfield** Technology

**Domain** Generic Technology

Status Registered Status date 20 January 2011

Planned review date 31 December 2016 Date version published 12 December 2013

This achievement standard involves demonstrating an understanding of how technological modelling supports decision-making.

#### **Achievement Criteria**

Achievement	Achievement with Merit	Achievement with Excellence
Demonstrate	Demonstrate in-depth	Demonstrate comprehensive
understanding of how	understanding of how	understanding of how
technological modelling	technological modelling	technological modelling
supports decision-making.	supports decision-making.	supports decision-making.

## **Explanatory Notes**

This achievement standard is derived from Level 6 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 <a href="http://www.technology.tki.org.nz/">http://www.technology.tki.org.nz/</a>.

Appropriate reference information is available in *Safety and Technology Education: A Guidance Manual for New Zealand Schools*, Ministry of Education at <a href="http://technology.tki.org.nz/Curriculum-support/Safety-and-Technology-Education">http://technology.tki.org.nz/Curriculum-support/Safety-and-Technology-Education</a>, and the Health and Safety in Employment Act 1992.

- 2 Demonstrate understanding of how technological modelling supports decision-making involves:
  - identifying the technological modelling undertaken to develop and trial a technological outcome
  - identifying evidence derived from technological modelling

 describing how the evidence gained informed decisions about 'what could happen' and 'what should happen' for the technological outcome.

Demonstrate in-depth understanding of how technological modelling supports decision-making involves:

- explaining the purpose of the technological modelling undertaken to develop and trial a technological outcome
- explaining why the evidence gained enabled decisions to be made about 'what could happen' and 'what should happen' for the technological outcome.

Demonstrate comprehensive understanding of how technological modelling supports decision-making involves:

- discussing how decisions made about a technological outcome considered 'what could happen' and 'what should happen'
- discussing how technological modelling identifies risk to support decision making.
- 3 Technological modelling refers to both functional modelling and prototyping.
- 4 Assessment Specifications for this achievement standard can be accessed through the Technology Resources page found at <a href="http://www.nzqa.govt.nz/qualifications-standards/qualifications/ncea/subjects/">http://www.nzqa.govt.nz/qualifications-standards/qualifications/ncea/subjects/</a>.

# **Replacement Information**

This achievement standard and AS91049 replaced AS90050.

This achievement standard, AS91045, AS91047, and AS91049 replaced unit standard 13389.

## **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.
- 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