

Achievement Standard

Subject Reference Generic Technology 1.1

Title Undertake brief development to address a need or opportunity

Level 1 **Credits** 4 **Assessment** Internal

Subfield Technology

Domain Generic Technology

Status Registered **Status date** 20 January 2011

Planned review date 31 December 2020 **Date version published** 20 November 2014

This achievement standard involves undertaking brief development to address a student identified need or opportunity.

Achievement Criteria

Achievement	Achievement with Merit	Achievement with Excellence
<ul style="list-style-type: none"> Undertake brief development to address a need or opportunity. 	<ul style="list-style-type: none"> Undertake detailed brief development to address a need or opportunity. 	<ul style="list-style-type: none"> Undertake comprehensive brief development to address a need or opportunity.

Explanatory Notes

- 1 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 current version of 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 in Employment Act 1992.

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](#).

- 2 *Undertake brief development to address a need or opportunity* involves:

- identifying a need or opportunity as a result of exploring the given context and issue
- reflecting consideration of the social and physical environment
- reflecting key stakeholder's opinion
- describing the outcome to be developed
- identifying the physical and functional attributes needed for the outcome
- producing a final brief comprised of a conceptual statement and specifications.

Undertake detailed brief development to address a need or opportunity involves:

- explaining how the need or opportunity is derived from the issue
- reflecting iterative consideration of the social and physical environment and key stakeholder's opinion
- describing the purpose of the outcome, within the intended environment
- explaining the physical and functional attributes needed for the outcome.

Undertake comprehensive brief development to address a need or opportunity involves:

- justifying why such an outcome should be developed
- justifying why the identified physical and functional attributes are needed for the outcome.

- 3 It is intended that students will explore a given context and issue provided by the teacher in order to identify a need or opportunity, and undertake a process of brief development resulting in the communication of the nature of an outcome that resolves the need or opportunity. Stakeholders must be accessible to students.

A *need* refers to an identified requirement related to a person, group or environment (social and physical).

An *opportunity* refers to an identified possibility related to a person, group or environment (social and physical).

- 4 An outcome for the purpose of this achievement standard is a conceptual design for an outcome and/or a technological outcome itself (prototype).
- 5 Conditions of Assessment related to this achievement standard can be found at <http://ncea.tki.org.nz/Resources-for-Internally-Assessed-Achievement-Standards>.

Replacement Information

This achievement standard replaced AS90046.

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