

## Achievement Standard

<b>Subject Reference</b>	Generic Technology 3.8		
<b>Title</b>	Demonstrate understanding of consequences, responsibilities and challenges involved in technology		
<b>Level</b>	3	<b>Credits</b>	4
		<b>Assessment</b>	Internal
<b>Subfield</b>	Technology		
<b>Domain</b>	Generic Technology		
<b>Status</b>	Registered	<b>Status date</b>	4 December 2012
<b>Planned review date</b>	31 December 2020	<b>Date version published</b>	17 November 2016

This achievement standard involves demonstrating understanding of consequences, responsibilities and challenges involved in technology.

### Achievement Criteria

Achievement	Achievement with Merit	Achievement with Excellence
<ul style="list-style-type: none"> <li>Demonstrate understanding of consequences, responsibilities and challenges involved in technology.</li> </ul>	<ul style="list-style-type: none"> <li>Demonstrate in-depth understanding of consequences, responsibilities and challenges involved in technology.</li> </ul>	<ul style="list-style-type: none"> <li>Demonstrate comprehensive understanding of consequences, responsibilities and challenges involved in technology.</li> </ul>

### Explanatory Notes

- This achievement standard is derived from Level 8 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 consequences, responsibilities and challenges involved in technology* involves:
- explaining the consequences of a technological development in a specific field over time
  - discussing the responsibilities of technologists in a technological development in a specific field over time
  - explaining how technological intervention challenges people's perceptions of what it means to be human.

*Demonstrate in-depth understanding of consequences, responsibilities and challenges involved in technology* involves:

- discussing how consequences of a technological development in a specific field has influenced the responsibilities of technologists over time.

*Demonstrate comprehensive understanding of consequences, responsibilities and challenges involved in technology* involves:

- discussing the probable future technological developments in a specific field, justifying these with past and/or contemporary evidence
- discussing why technological intervention challenges people's perceptions of what it means to be human.

- 3 Consequences are those that impact on the made, natural and social world and include consequences that were known and unknown, intended and unintended.
- 4 Specific fields in which technological developments may take place include: medical, sporting, communication, entertainment, food, gaming, and military. Priorities that govern specific fields include sustainability, profit, human desire and/or need, attitudes to existing technology(ies).
- 5 Responsibilities of technologists can be both individual and collective. Responsibilities arise within environments that may include social, political, physical, economic, cultural, and spiritual.
- 6 Conditions of Assessment related to this achievement standard can be found at <http://ncea.tki.org.nz/Resources-for-aligned-standards/Technology/Level-3-Technology>.
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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