

Achievement Standard

Subject Reference	Digital Technologies and Hangarau Matihiko 3.8				
Title	Use complex processes to develop a digital technologies outcome				
Level	3	Credits	6	Assessment	Internal
Subfield	Technology				
Domain	Digital Technologies				
Status	Approved		Status date	September 2024	
Planned review date	December 2028		Date version published	December 2024	

This achievement standard involves using complex processes to develop a digital technologies outcome.

Achievement Criteria

Achievement	Achievement with Merit	Achievement with Excellence
<ul style="list-style-type: none"><li>Use complex processes to develop a digital technologies outcome.</li></ul>	<ul style="list-style-type: none"><li>Use complex processes to develop an informed digital technologies outcome.</li></ul>	<ul style="list-style-type: none"><li>Use complex processes to develop a refined digital technologies outcome.</li></ul>

Explanatory Notes

- 1

This achievement standard is derived from the Technology Learning Area at Level 8 of *The New Zealand Curriculum*, Learning Media, Ministry of Education, 2007.

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

*Use complex processes to develop a digital technologies outcome* involves:

  - using recognised and appropriate project management techniques to plan the development of a digital technologies outcome
  - decomposing the digital technologies outcome into smaller components
  - trailing components of the outcome
  - testing that the digital technologies outcome functions as intended
  - addressing relevant implications.

*Use complex processes to develop an informed digital technologies outcome* involves:

  - effectively using project management techniques to manage development, feedback and/or collaborative processes
  - effectively trialling multiple components and/or techniques

- effectively using information from testing and trialling to improve the functionality of the digital technologies outcome.

*Use complex processes to develop a refined digital technologies outcome involves:*

- synthesising information gained from the planning, testing and trialling of components
- discussing how this information led to the development of a high-quality digital technologies outcome.

3 Examples of *project management techniques* include:

- Agile, Kanban, or waterfall techniques
- version control
- collaboration and communication
- managing assets
- code review
- project scheduling.

4 Examples of *relevant implications* include:

- social
- cultural
- legal
- ethical
- intellectual property
- privacy
- accessibility
- usability
- functionality
- aesthetics
- sustainability and future proofing
- end-user requirements
- health and safety.

5 Conditions of Assessment related to this achievement standard can be found at <http://ncea.tki.org.nz/Resources-for-Internally-Assessed-Achievement-Standards>.

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## Quality Assurance

- 1 Schools and institutions must have been granted consent to assess by NZQA before they can register credits from assessment against achievement standards.
- 2 Schools and institutions with consent to assess must engage with the moderation system that applies to those achievement standards.

Consent and Moderation Requirements (CMR) reference 0233

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