

Achievement Standard

Subject Reference Digital Technologies 3.9

Title Evaluate a digital technology concept

Level 3 **Credits** 3 **Assessment** External

Subfield Technology

Domain Digital Technologies

Status XX **Status date** XX

Planned review date XX **Date version published** XX

This achievement standard involves evaluating a digital technology concept.

Achievement Criteria

Achievement	Achievement with Merit	Achievement with Excellence
Evaluate a digital technology concept.	Evaluate in-depth a digital technology concept.	Critically evaluate a digital technology concept.

Explanatory Notes

- 1 This achievement standard is derived from 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/Technology-in-the-NZC/Safety-in-Technology-Education-revised-2017>, 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* outcomes to which this standard relates, see the [Papa Whakaako](#) for the relevant learning area.

2 *Evaluate a digital technology concept* involves:

- explaining the key aspects of the digital technology concept
- explaining the relevant mechanisms behind the concept
- explaining how the application of the concept may appear in different scenarios giving examples of how the concept is used, is implemented, or occurs
- explaining key problems or issues related to the concept and how these have been or may be addressed.

Evaluate in-depth a digital technology concept involves:

- comparing and contrasting different mechanisms for, aspects of, or perspectives on the concept
- critiquing the impacts of the concept in different scenarios and wider perspectives.

Critically evaluate a digital technology concept involves:

- drawing insightful conclusions about aspects of the concept and its potential future use.

3 Examples of *digital technology concepts* include:

- user experience
- computer vision
- virtual reality
- artificial intelligence
- big data
- social algorithms
- autonomous control
- emerging technologies
- new innovations
- brain control interface
- network communication protocols.

4 Examples of mechanisms include:

- techniques
- principles
- protocols
- systems
- procedures
- processes.

5 Students should focus on a key aspect of a larger concept.

6 Examples of insightful conclusions include:

- innovative and imaginative connections
- exploration of less obvious implications
- making predictions
- suggesting improvements

- making justified generalisations that could be applied beyond the concept itself.

Replacement Information

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