Achievement Standard

Subject Reference	Digital Technologies 2.9				
Title	Analyse a digital technology concept				
Level	2	**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 analysing a digital technology concept.

Achievement Criteria

Achievement	Achievement with Merit	Achievement with Excellence
Analyse a digital technology concept.	Analyse, in-depth, a digital technology concept.	Comprehensively analyse 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-2017and 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.

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2 *Analyse a digital technology concept* involves:
- explaining the digital technology concept
- explaining relevant mechanisms behind the concept
- providing examples of how the concept is used, is implemented, or occurs
- explaining key problems or issues related to the concept
- explaining how the concept has been or could be applied to address an opportunity.

Analyse, in-depth, a digital technology concept involves:
- explaining different mechanisms for, aspects of, or perspectives on the concept
- providing examples of the applications and impact of the concept.

Comprehensively analyse a digital technology concept involves:
- discussing the wider and future implications of the digital technology concept.

3 Examples of *digital technology concepts* include:
- information systems
- encryption
- error control
- complexity and tractability
- new innovations
- emerging technologies
- autonomous control.

4 Examples of mechanisms include:
- techniques
- principles
- protocols
- systems
- procedures
- processes.

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

6 Examples of wider and future implications include:
- ethical issues
- social impact
- sustainability
- human factors
- future proofing.

Replacement Information

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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

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