

Achievement Standard

Subject Reference	Integrated Studies 2.2		
Title	Conduct an inquiry into the use of organisms to meet future needs		
Level	2	Credits	4
		Assessment	Internal
Subfield	Agribusiness		
Domain	Science, Social Science, Technology		
Status	XX	Status date	XX
Planned review date	XX	Date version published	XX

This achievement standard involves conducting an inquiry into the use of organisms to meet future needs.

Achievement Criteria

Achievement	Achievement with Merit	Achievement with Excellence
<ul style="list-style-type: none"> Conduct an inquiry into the use of organisms to meet future needs. 	<ul style="list-style-type: none"> Conduct an, in-depth, inquiry into the use of organisms to meet future needs. 	<ul style="list-style-type: none"> Conduct a comprehensive inquiry into the use of organisms to meet future needs.

Explanatory Notes

1 This achievement standard is related to *The New Zealand Curriculum*, Learning Media, Ministry of Education, 2007, and to the material in the Teaching and Learning Guides, Ministry of Education, 2016 at <http://seniorsecondary.tki.org.nz>

2 *Conduct an inquiry* involves:

- deciding on a specific inquiry focus and developing inquiry questions
- gathering and synthesising information and background ideas
- identifying external influences
- reporting on the findings that are relevant to the inquiry focus
- reflecting on and summarising the findings in relation to future needs
- presenting the findings

Conduct an, in-depth, inquiry involves:

- comparing points of view, values and perspectives that relate to the inquiry focus
- evaluating the findings from the inquiry using external influences that could have an impact on future needs
- concluding as to whether the use of the organism might meet future needs.

Conduct a comprehensive inquiry involves:

- critically evaluating the findings and considering the implications of the findings using the external influences
- prioritising, with reasons, the findings in relation to the external influences
- predicting what the short term and long term impacts might be
- concluding and justifying whether the use of the organism might meet future needs.

3 *Organisms* are all living things. Examples include:

- microorganisms (bacteria, fungi, viruses)
- marine organisms
- insects

4. *Use* refers to an adaptation, modification or manipulation of the organism to meet future needs.

5. *External influences* have an impact on the decision making process. Examples include:

- ethical
- economic
- political
- cultural
- social
- environmental
- technological
- legal
- scientific
- biological

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

Quality Assurance

- 1 Providers and Industry Training Organisations must be accredited 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