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| Science in Practice 2024 v1.0  [#]1: Applied investigation — primary/secondary information Workshop sample assessment template This sample has been compiled by the QCAA to assist and support teachers in planning and developing assessment instruments for individual school settings.  Schools develop internal assessments for each Applied subject, based on the learning and assessment described in the syllabus.  To use this template, teachers should:   * customise the school information section and subject details, delete the QCAA logo, and replace ‘Queensland Curriculum and Assessment Authority’ with the school name in all footers * complete the unit and module section using information from the syllabus * consider the conditions prescribed in the syllabus when completing the conditions section * construct assessment items in the provided fields. Refer to the guidance provided in yellow in the template. This guidance refers to content to be entered * include stimulus items within the template or attached separately, as appropriate * refer to the Assessment techniques section of the syllabus for further information about subject-specific specifications for a Project, e.g. whether all objectives need to be assessed * remove the text in blue from the assessment instrument when it is completed. The text in blue provides formatting tips and instructions to writers.  |  |  | | --- | --- | | **Unit** |  | | **Student number** |  | | **Teacher** |  | | **Issued** |  | | **Due date** |  |   **Overall result**   | Result | | | | | Comment | | --- | --- | --- | --- | --- | --- | | **A** | **B** | **C** | **D** | **E** |  | |

## Conditions

Copy and paste the technique, unit, duration and response requirements directly from the syllabus. Identify if it will be a group or individual task. Add other resource information as needed or delete these fields as needed.

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| **Technique** | [Insert collection of work, investigation, performance, practical demonstration, product, project] |
| **Duration** | Class time available: 15 hours  You may use class time and your own time to develop your response. |
| **Response requirements** | [Specify whether the response is written, spoken and/or multimodal and/or the number of words, minutes, pages and/or slides.] |
| **Individual/group** | [Specify whether individual or group work is required.] |
| **Other** | [Identify here if there is stimulus to be used, access to technology, use of notes, audience, genre, word length etc. Add a row for each instruction.] |
| **Resources** | [Specify access to resources.] |

## Task

Add task, i.e. copy and paste the task information from the relevant unit and then contextualise the task to align it to your school and student needs.

Suggested items to include are:

* + purpose of the task
  + information about the audience
  + relevance of the instrument to the unit of work
  + description of the problem or scenario that students will address when completing the task.

## Research question

Provide research questions that students can select and investigate. This task requires students to investigate a question that is related to animal industries and has scope to be refined further..

## Specifications

Copy and paste the specifications directly from the syllabus. You can then contextualise this further to align to the specific task you have developed.

To complete this task, you will:

* [Insert the specifications.]
* [Insert the specifications.]
* [Insert the specifications.]
* [Insert the specifications.]

## Checkpoints

Insert or delete due dates and sign-off as required. Insert a maximum of five checkpoints.

[Term [X] Week [x]/Date]: Identify checkpoint action.]

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## Authentication strategies

Select at least one strategy from the following list. Delete strategies not required.

* The teacher will provide class time for task completion.
* Students will produce sections of the final response under supervised conditions.
* Students will each produce a unique response by … [Identify how this is achieved, e.g. selecting a unique topic or a topic with teacher-defined limits to how many students may select that particular topic, using individualised datasets, collecting data as a group but producing individual reports … ]
* Students will provide documentation of their progress [at indicated checkpoints, if checkpoints are provided].
* The teacher will collect copies of the student response and monitor at key junctures.
* The teacher will collect and annotate drafts.
* The teacher will conduct interviews or consultations with each student as they develop the response.
* Students will use plagiarism-detection software at submission of the response.
* Students must acknowledge all sources.
* Students must submit a declaration of authenticity.
* Students will produce summaries during the response preparation.
* The teacher will conduct interviews after submission to clarify or explore aspects of the response.
* The teacher will compare the responses of students who have worked together in groups.
* The teacher will ensure class cross-marking occurs.

## Scaffolding

* + Delete this heading and section if no scaffolding will be used.

[Scaffolding should describe specific processes that must be used, or expectations for the presentation of the student response, e.g. information about the report format to be used, expected referencing or citation conventions, or the inquiry or problem-solving model that must be used.]

## Instrument-specific standards

| **Execution** | **Interpretation** | **Evaluation** | **Grade** |
| --- | --- | --- | --- |
| The student work has the following characteristics: | | | |
| * selection of sufficient and relevant methodology/sources * efficient, effective and safe execution of experimental/research methodology * efficient collection and effective collation of information | * thorough and appropriate identification of patterns and relationships in information * thorough and appropriate identification of errors/limitations of information * conclusion supported with relevant evidence | * recommendations for effective future investigations supported with relevant evidence * fluent and concise use of scientific language * effective use of representations and genre conventions | **A** |
| * selection of relevant methodology/sources * effective and safe execution of experimental/research methodology * collection and collation of information | * appropriate identification of patterns and relationships in information * appropriate identification of errors/limitations of information * conclusion related to evidence | * recommendations for appropriate future investigations related to evidence * competent use of scientific language * appropriate use of representations and genre conventions | **B** |
| * guided selection of relevant methodology/sources * safe execution of experimental/research methodology * collection of information | * identification of patterns and relationships in information * identification of errors/limitations of information * conclusion to the research question | * recommendations for future investigations * use of scientific language * use of representations and genre conventions | **C** |
| * guided selection of methodology/sources * guided execution of given experimental or research methodology | * statements about patterns and relationships in information * statements about errors/limitations of information * statements about the research question | * statements about investigations * use of language * disjointed use of basic representations and conventions | **D** |
| * directed execution of given experimental or research methodology. | * statement related to the research question. | * partial description of investigation. | **E** |

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