To be completed by candidate:

NSN

123456789

School Code

123

NZQA

| **Mana Tohu Mātauranga o Aotearoa**
New Zealand Qualifications Authority

Level 1 Materials and Processing Technology RAS 2023

92014 Demonstrate understanding of sustainable practices in the development of a Materials and Processing Technology design

Credits: Four

PILOT ASSESSMENT

Achievement	Achievement with Merit	Achievement with Excellence
Demonstrate understanding of sustainable practices in the development of a Materials and Processing Technology design.	Refine sustainable practices in the development of a Materials and Processing Technology design.	Evaluate sustainable practices in the development of a Materials and Processing Technology design.

Enter your 9-digit National Student Number (NSN) and School Code into the space at the top of slide 1. (If your NSN has 10 digits, omit the leading zero.)

Answer ALL parts of the assessment task in this document.

Your answers should be presented in Verdana font within the text boxes. You may include only information you produce during this assessment session. Internet access is not permitted.

Save your finished work using the following naming convention: **SchoolCode-YourNSN-92014.pptx**.
If you submit your report orally, embed the single file into this document.

If you open this document using software other than PowerPoint:

- save your slideshow as a PDF, using **SchoolCode-YourNSN-92014.pdf**

- if submitting oral responses with a PDF report, submit a separate file for the audio, using **SchoolCode-YourNSN-92014.mp3 or wma**

By saving your work at the end of the assessment session, you are declaring that this work is your own. NZQA may sample your work to ensure this is the case.

INSTRUCTIONS

Respond to the following task about how you **applied sustainable practices** in the development of a design.

You may support your answers with images, which can be inserted into the report where image boxes have been provided. *Do not use video files.*

You should aim to write no more than **800 words** in total. Where audio evidence is used, the total duration should not exceed **4 minutes**.

(a)   Your design – what it is

(i)   Who is your design for (i.e. person, whānau, or community)?

Start typing here

(ii)   What are the specifications of the design?

Start typing here

Insert an image of your design

(b)   Key phases timeline

(i)   Insert images of the different research you undertook at key phases of the design process.

(ii)   Explain how these key phases (images) helped you to develop your design.

Initial research	Research into potential sustainable practices	Research related to concept designs	Other evidence that helped you to develop your design

Research image	*Research image*	*Research image*	*Research image*	*Research image*

Explanation	**Explanation**	**Explanation**	**Explanation**
Start typing here	Start typing here	Start typing here	Start typing here

(c)   Sustainable practices in the development of the design – **decisions about materials / components**

(i)   When you were planning your design, what materials and / or components did you decide to use?

Start typing here

(ii)   What other materials / components could you have used?

Start typing here

Image (optional)

(iii)   How did you make the decision to use your chosen materials and / or components in (c) (i)?

Start typing here

(iv)   Discuss how you made improvements to your design during the development process.

You might consider:

- improvements to better meet the needs of the person, whānau, or community the design is for

- improvements in sustainable practice (materials, economy of use, waste disposal potential, or other aspects of kaitiakitanga).

You may support your response using images on the next slide.

Start typing here

You may include clearly labelled images to support your response to part (c) (iv).

This assessment is based on a now-expired version of the achievement standard and may not accurately reflect the content and practice of external assessments developed for 2024 onwards.
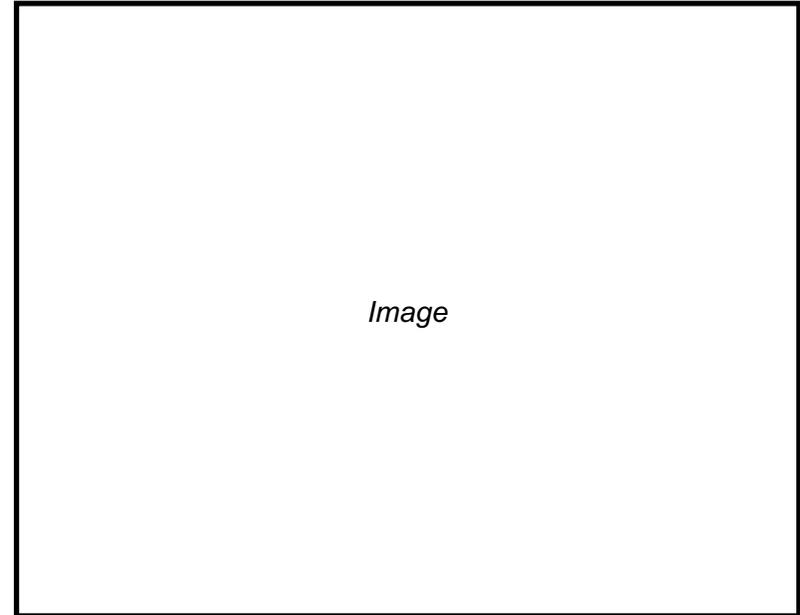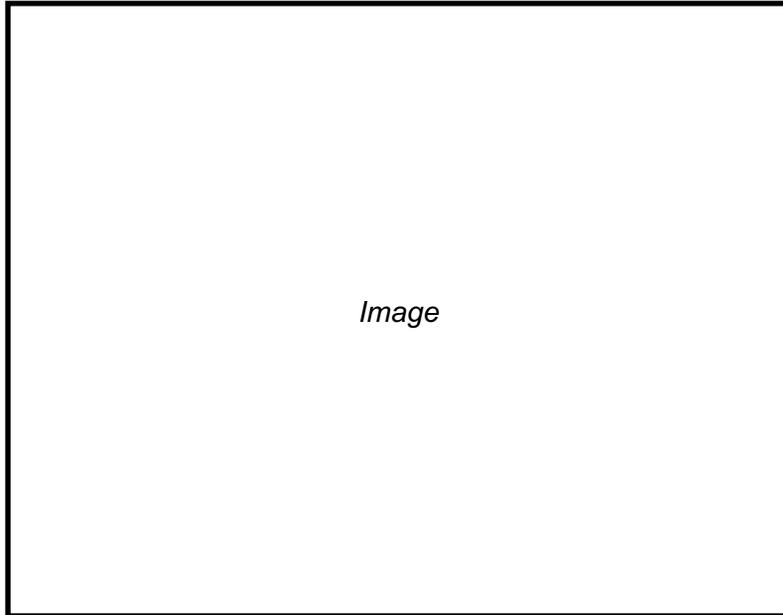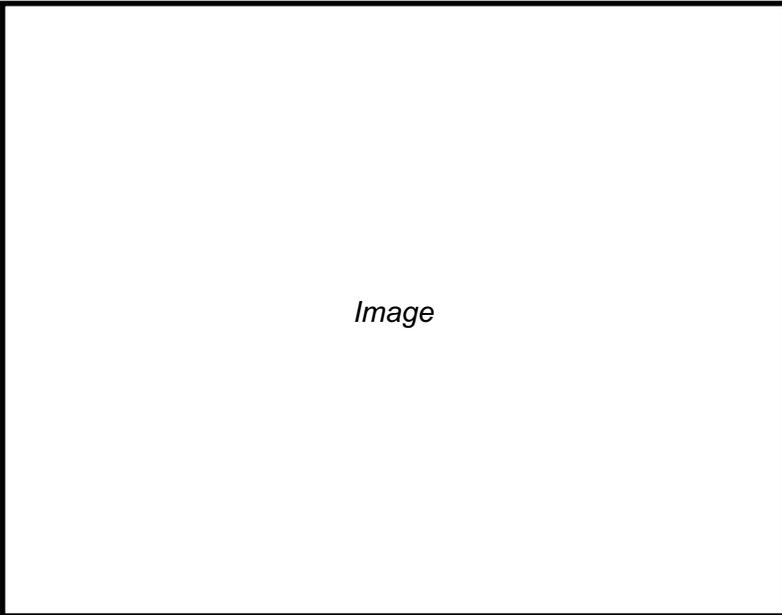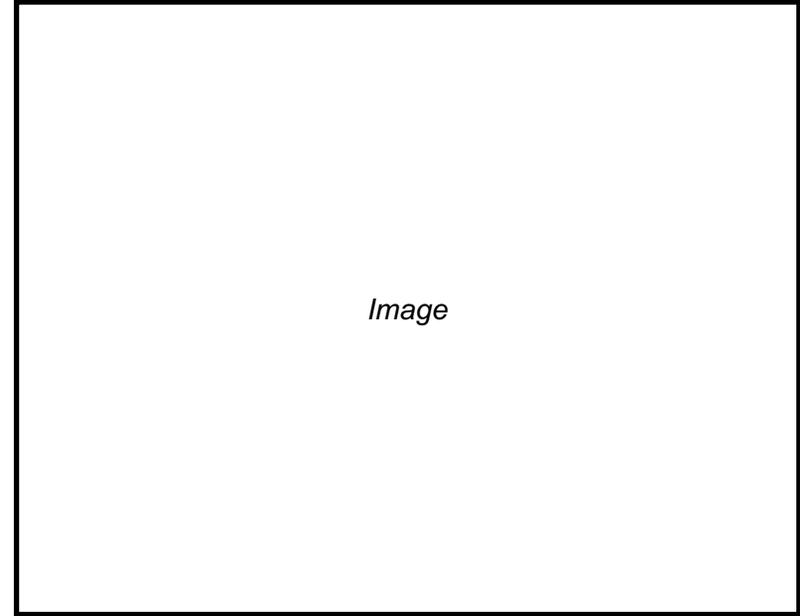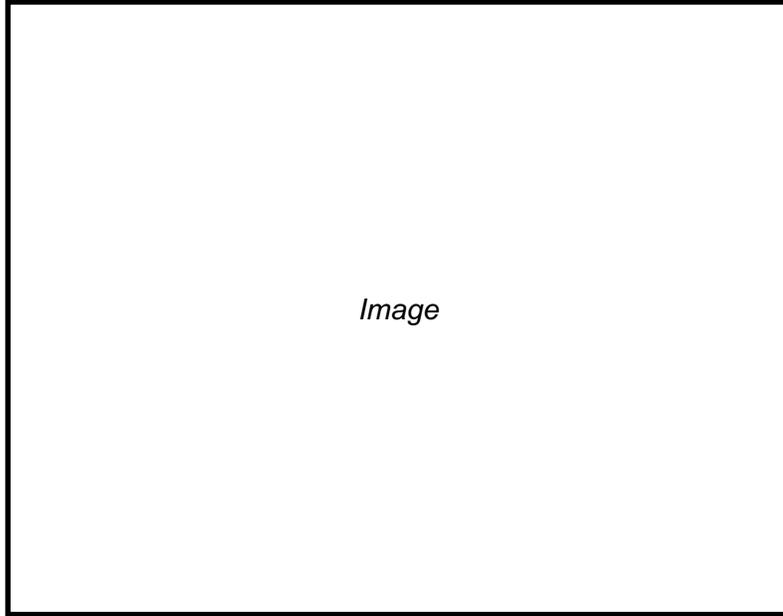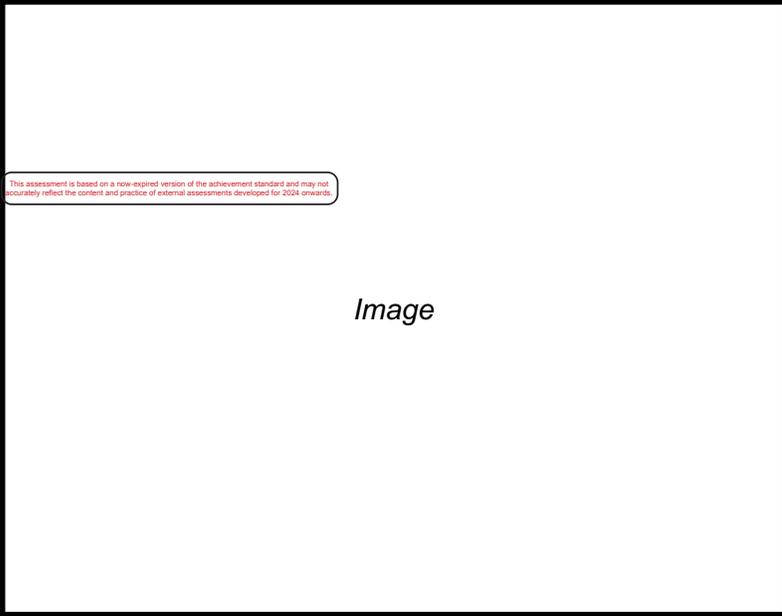
(d) Stakeholder feedback during the development of the design

Use feedback from TWO different points in the design development process. Use this slide for feedback (1) and the next slide for feedback (2).

Feedback (1)

(i) At what point in the design process did you ask for this feedback? Type an 'X' in the box that best describes the point in the process.

☐ Initial research

☐ Research related to potential sustainable practices

☐ Research related to concept designs

☐ Research related to material exploration

☐ Research related to waste disposal options

☐ Refinement of designs

☐ Chosen design

(ii) Who provided the feedback?

Start typing here

(iii) What was their feedback?

Start typing here

(iv) Explain how you used the feedback to develop your design? You may support your response with a relevant image.

Start typing here

Image (optional)

Feedback (2)

(i) At what point in the design process did you ask for this feedback?
Type an 'X' in the box that best describes the point in the process.

☐ Initial research

☐ Research related to potential sustainable practices

☐ Research related to concept designs

☐ Research related to material exploration

☐ Research related to waste disposal options

☐ Refinement of designs

☐ Chosen design

(iv) Explain how you used the feedback to develop your design? You may support your response with a relevant image.

Start typing here

(ii) Who provided the feedback?

Start typing here

(iii) What was their feedback?

Start typing here

Image (optional)