

To be completed by candidate:

<b>NSN</b>	<b>School Code</b>
<input type="text" value="123456789"/>	<input type="text" value="123"/>

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.



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

## **Level 1 Materials and Processing Technology RAS 2023**

### **92015 Demonstrate understanding of materials and techniques for a feasible Materials and Processing Technology outcome**

Credits: Four

## **PILOT ASSESSMENT**

<b>Achievement</b>	<b>Achievement with Merit</b>	<b>Achievement with Excellence</b>
Demonstrate understanding of materials and techniques selected for a feasible Materials and Processing Technology outcome.	Explain materials and techniques selected for a feasible Materials and Processing Technology outcome.	Evaluate materials and techniques selected for a feasible Materials and Processing Technology outcome.

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-92015.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-92015.pdf**
- if submitting oral responses with a PDF report, submit a separate file for the audio, using **SchoolCode-YourNSN-92015.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 **selected, tested, and trialled materials and techniques** for the design of a feasible outcome.

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) In what environment is the design intended to be used?

Start typing here

*Insert an image of your design for  
a feasible outcome*

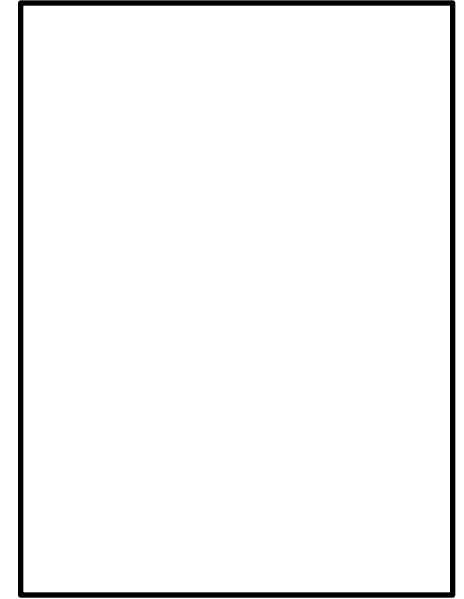
(iii) Describe in detail the physical attributes of your feasible outcome.

Start typing here

Image 1



Image 2



*Images (optional)*

(iv) Describe in detail the functional attributes of your feasible outcome.

Start typing here

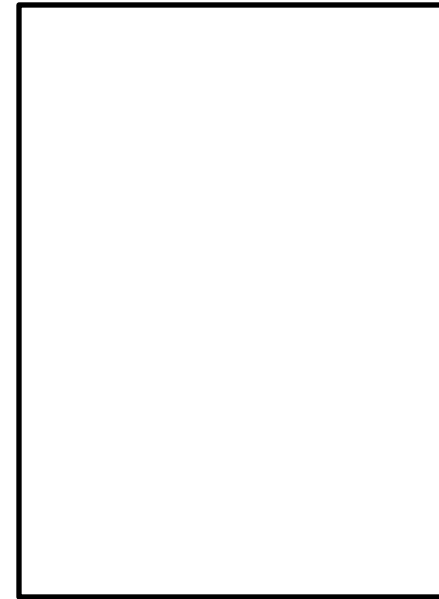


Image 3

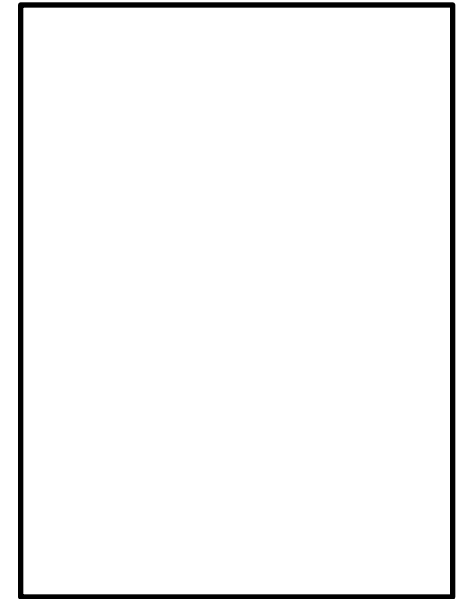
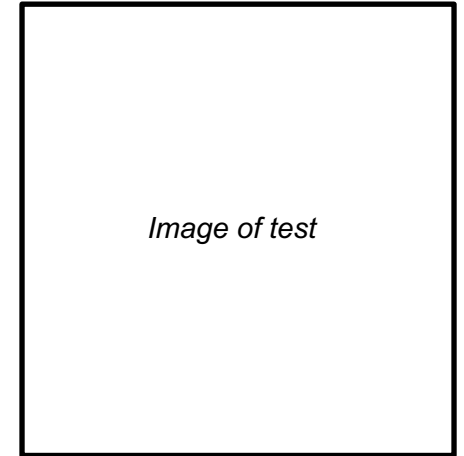
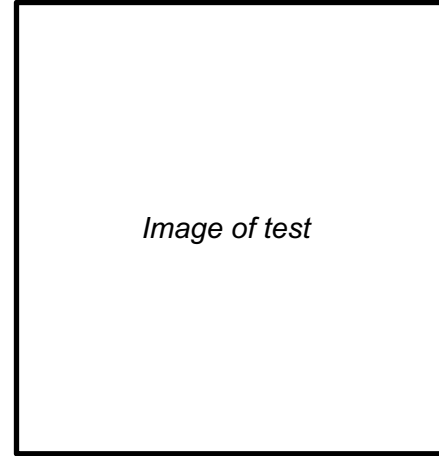
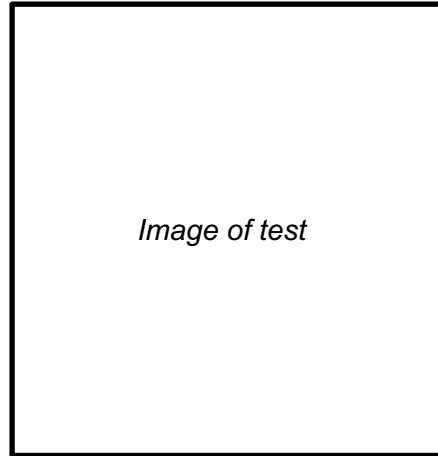
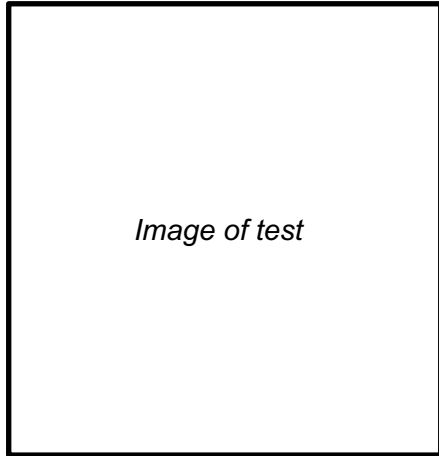


Image 4

(b) Based on the physical and functional attributes of your feasible outcome, identify **one or more** tests you undertook on **at least one** possible material / component.

<b>Material / component</b>	<b>Tests</b>
Type name of material / component	Type name of test

- (c) Provide evidence of at least one test you carried out on your selected materials / components for use in your feasible outcome.  
You may show evidence from up to four tests.



**Results**

Start typing here

**Results**

Start typing here

**Results**

Start typing here

**Results**

Start typing here

(d) Based on the physical and functional attributes of your feasible outcome, identify **one or more** techniques you trialled with **at least one** possible material / component.

Material / component	Techniques
Type name of material / component	Type name of technique



- (e) Provide evidence of at least one test of a technique you carried out to select the most relevant one for your feasible outcome. You may show evidence from up to four tests.

*Image of technique trialled*

*Image of technique trialled*

*Image of technique trialled*

*Image of technique trialled*

**Results**

Start typing here

**Results**

Start typing here

**Results**

Start typing here

**Results**

Start typing here

(f) Impact of testing and stakeholder feedback

- (i) What influence did your selection and testing of different materials / components and trialling of techniques have on the feasibility of your outcome and its physical and functional attributes?  
Add images that support your response into the next slide as needed.

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- (ii) What influence did stakeholder feedback have on your feasible outcome, including the selection of materials / components and techniques?  
Add images that support your response into the next slide as needed.

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

