Achievement Standard

Subject Reference	Materials and Processing Technology 1.3				
Title	Demonstrate understanding of sustainable practices in the development of a Materials and Processing Technology design				
Level	1	**Credits**	4	**Assessment**	External
Subfield	Technology				
Domain	Construction and Mechanical Technologies				
Status	Approved	**Status date**	27 November 2025		
Planned review date	31 December 2029	**Date version published**	9 December 2025		

Purpose Statement

Students are able to demonstrate understanding of sustainable practices in the development of a Materials and Processing Technology design.

Achievement Criteria

Achievement	Achievement with Merit	Achievement with Excellence
• Demonstrate understanding of sustainable practices in the development of a Materials and Processing Technology design	• Examine 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

Explanatory Notes

1 *Demonstrate understanding of sustainable practices in the development of a Materials and Processing Technology design* involves:
- using sustainable practices in the development of a purposeful design for a person, whānau, or community.

Examine sustainable practices in the development of a Materials and Processing Technology design involves:
- refining the use of sustainable practices in the development of the purposeful design for a person, whānau, or community.

Evaluate sustainable practices in the development of a Materials and Processing Technology design involves:

- evaluating decisions about sustainable practices in the development of the purposeful design for a person, whānau, or community.

2 As part of the evidence provided, students must include discussion of kaitiakitanga in the context of applying sustainable practices for the environment during the development of a design. Examples of ways students can fulfil their responsibility towards the environment include:

- the selection of materials
- the economic use of materials
- the appropriate disposal of waste materials.

3 A *Materials and Processing Technology design* does not need to result in a final outcome.

4 The design will be developed using a design process.

A *design process* can involve:

- ongoing research
- developing initial concept designs
- stakeholder consultation
- refining the initial concept designs during the creation of the design.

5 Refer to the NCEA glossary for Māori, Pacific, and further subject-specific terms and concepts.

6 This achievement standard is derived from the Technology Learning Area at Level 6 of *The New Zealand Curriculum*: Learning Media, Ministry of Education, 2007.

Replacement Information

This achievement standard, AS92012, AS92013, and AS92015 replaced AS91044-AS91056.

Quality Assurance

1 Schools and institutions must have been granted consent to assess by NZQA before they can register credits from assessment against achievement standards.

2 Schools and institutions with consent to assess must engage with the moderation system that applies to those achievement standards.

Consent and Moderation Requirements (CMR) reference 0233
