Number	AS92013	Version	3
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Achievement Standard

Subject Re	ference	Materials and Processing Technology 1.2				
Title		Experiment with different materials to develop a Materials and Processing Technology outcome				
Level	1	Credits	6	Assessmen	t Internal	
Subfield	Technology					
Domain	Construction and Mechanical Technologies					
Status		Approved		Status date	December 2023	
Planned re	view date	December	2028	Date version published	December 2023	

Purpose Statement

Students are able to experiment with different materials to develop a Materials and Processing Technology outcome.

Achievement Criteria

Achievement	Achievement with Merit	Achievement with Excellence
• Experiment with different materials to develop a Materials and Processing Technology outcome	 Examine different materials to develop a Materials and Processing Technology outcome 	 Evaluate different materials to develop a Materials and Processing Technology outcome

Explanatory Notes

- 1 Experiment with different materials to develop a Materials and Processing Technology outcome involves:
 - exploring the properties of different materials through experimentation
 - creating a purposeful outcome informed by the exploration.

Examine different materials to develop a Materials and Processing Technology outcome involves:

- investigating the properties of different materials through ongoing experimentation incorporating stakeholder feedback
- refining the use of materials in the creation of the purposeful outcome informed by the investigation.

Evaluate different materials to develop a Materials and Processing Technology outcome involves:

- analysing the properties of different materials for the creation of the purposeful outcome
- justifying the use of materials in the creation of the purposeful outcome.
- 2 The term *materials* encompasses all items, ingredients, and components that a Materials and Processing Technology outcome could be made from.
- 3 In Materials and Processing Technology, *experimentation* refers to trying out new ideas or methods for the purpose of discovery.

Examples of experimentation with different materials include:

- transforming by altering the structure
- combining by mixing materials
- manipulating materials without changing their structure or composition
- forming to create a new material.
- 4 For the purpose of this achievement standard, *stakeholder feedback* is used to inform the exploration and selection of materials for a purposeful outcome.

Stakeholder feedback is documented verbal or written information sourced first-hand. Sources of stakeholder feedback could include the end user, or people or groups that have expertise, experience, or a combination of both in this area. More than one stakeholder must be consulted.

- 5 A *purposeful outcome* has to meet a need or opportunity identified for a person, whānau, or community.
- 6 Refer to the NCEA <u>glossary</u> for Māori, Pacific, and further subject-specific terms and concepts.
- 7 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, AS92014, 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