# **Design marking guide**

External assessment

#### Examination — Design challenge (28 marks)

#### Assessment objectives

This assessment instrument is used to determine student achievement in the following objectives:

- 2. represent ideas, and a sustainable design concept using schematic sketching and/or ideation sketching in the develop phase
- 4. devise ideas using divergent thinking strategies in response to a redesign problem in the develop phase
- 5. synthesise ideas and sustainability information to propose a sustainable design concept in the develop phase
- 6. evaluate the strengths, limitations and implications of ideas against design criteria and make refinements.

Note: Objectives 1, 3 and 7 are not covered in this assessment.





## Purpose

This document is an External assessment marking guide (EAMG).

The EAMG:

- Provides a tool for calibrating external assessment markers to ensure reliability of results
- Indicates the correlation, for each question, between mark allocation and qualities at each level of the mark range
- Informs schools and students about how marks are matched to qualities in student responses.

## Mark allocation

Where a response does not meet any of the descriptors for a question or a criterion, a mark of '0' will be recorded. Where no response to a question has been made, a mark of 'N' will be recorded.

#### External assessment marking guide

Criterion: Devising ideas using divergent thinking in response to a redesign problem	
The response:	М
<ul> <li>shows a wide range of ideas, from more than one point of view, perceptively devised with unique, credible and detailed attributes in response to the problem</li> </ul>	9
<ul> <li>shows a range of ideas, from more than one point of view, perceptively devised with unique, credible and detailed attributes in response to the problem</li> </ul>	8
<ul> <li>shows a wide range of ideas, from more than one point of view, purposefully devised with unique, credible and detailed attributes in response to the problem</li> </ul>	7
<ul> <li>shows a range of ideas, from more than one point of view, purposefully devised with credible and detailed attributes in response to the problem</li> </ul>	6
• shows a range of ideas purposefully devised with credible and detailed attributes in response to the problem	5
shows a range of ideas appropriately devised with credible attributes in response to the problem	4
<ul> <li>shows ideas appropriately devised with credible attributes in response to aspects of the problem         OR</li> </ul>	3
<ul> <li>shows an idea with credible and detailed attributes in response to the problem</li> </ul>	
<ul> <li>shows ideas superficially devised in response to the problem</li> <li>OR</li> </ul>	2
<ul> <li>shows an idea with credible attributes in response to aspects of the problem</li> </ul>	
<ul> <li>shows one or more ideas in response to aspects of the problem</li> </ul>	1
does not satisfy any of the descriptors above.	0

Criterion: Evaluating ideas and making refinements	
The response:	м
<ul> <li>shows discerning refinement of ideas based on judgments about the critical strengths, limitations and implications of attributes of ideas against all design criteria</li> </ul>	6
<ul> <li>shows effective refinement of ideas based on judgments about the logical strengths and limitations of ideas against all design criteria</li> </ul>	5
<ul> <li>shows adequate refinement of ideas based on judgments about the feasible strengths and limitations of ideas against most design criteria</li> </ul>	4
<ul> <li>shows adequate refinement of ideas based on judgments about the feasible strengths and limitations of ideas against some design criteria</li> </ul>	3
<ul> <li>shows superficial refinement of ideas based on identified strengths or limitations of ideas against some design criteria</li> </ul>	2
shows changes to ideas related to the design criteria	1
does not satisfy any of the descriptors above.	0

The response:	м
<ul> <li>shows an innovative design concept that</li> <li>- includes a coherent and logical combination of attributes of multiple ideas and stimulus information</li> <li>- satisfies all design criteria</li> </ul>	7
<ul> <li>shows an innovative design concept that</li> <li>includes a logical combination of attributes of multiple ideas and stimulus information</li> <li>satisfies all design criteria</li> </ul>	6
<ul> <li>shows a credible design concept that</li> <li>includes a logical combination of ideas and stimulus information</li> <li>satisfies most design criteria</li> </ul>	5
<ul> <li>shows a credible design concept that</li> <li>includes a simple combination of ideas and stimulus information</li> <li>satisfies most design criteria</li> </ul>	4
OR	
<ul> <li>shows an innovative design concept that</li> <li>includes a simple combination of ideas and stimulus information</li> <li>satisfies some design criteria</li> </ul>	
<ul> <li>shows a design concept that</li> <li>includes a simple combination of ideas and stimulus information</li> <li>satisfies some design criteria</li> </ul>	3
<ul> <li>shows a design concept that</li> <li>includes a simple idea and stimulus information</li> <li>satisfies some design criteria</li> </ul>	2
<ul> <li>shows a partial design concept that satisfies some design criteria</li> </ul>	1
<ul> <li>does not satisfy any of the descriptors above.</li> </ul>	0

The response:	M
indicates sophisticated use of	6
<ul> <li>elements and principles of visual communication to differentiate between critical and non-critical attributes in ideation and schematic sketching of ideas and a design concept</li> </ul>	
<ul> <li>sequences of related sketches to easily and readily show the progression of understanding of ideas</li> </ul>	
indicates considered use of	5
<ul> <li>elements and principles of visual communication to differentiate between attributes in ideation and schematic sketching of ideas and a design concept</li> </ul>	
<ul> <li>sequences of related sketches to show the progression of understanding of ideas</li> </ul>	
indicates appropriate use of	4
- ideation and schematic sketching of ideas and a design concept with labels and either 1 of the following	
elements and principles of visual communication to differentiate between attributes	
<ul> <li>sketches that show the progression of understanding of ideas</li> </ul>	
indicates appropriate use of	3
<ul> <li>ideation sketching and schematic sketching</li> </ul>	
- labels	
indicates cursory use of	2
<ul> <li>ideation or schematic sketching</li> </ul>	
- labels	
indicates illogical use of unclear ideation or schematic sketching	1
does not satisfy any of the descriptors above.	0