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.

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

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

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

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