

Cambridge International Examinations Cambridge International General Certificate of Secondary Education

DESIGN AND TECHNOLOGY

0445/11 October/November 2016

Paper 1 Product Design MARK SCHEME Maximum Mark: 50

Published

This mark scheme is published as an aid to teachers and candidates, to indicate the requirements of the examination. It shows the basis on which Examiners were instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began, which would have considered the acceptability of alternative answers.

Mark schemes should be read in conjunction with the question paper and the Principal Examiner Report for Teachers.

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International Examinations

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		Cambridge IGCSE – October/November 2016	0445	11				
1	(a)	Accept any four additional suitable points – easy access for child, items off, match bedroom furniture/decoration, wall mounted, floor standing. Accept other valid responses.	cannot be	e knock 1 × 4				
	(b)	Accept drawings of any two types of safety feature – rounded corners, or edges, countersunk screws, non-toxic materials, hygienic finishes. Accept other valid responses.	chamfered	/round 2 × 2	[4]			
2	(a)	Accept any four additional suitable points – attractive colour/shape, app stable in use, sections for each item, easy to put in / take out Accept other valid responses.	eals to chi	ldren, 1 × 4	[4]			
	(b)	Accept drawings of any two hinging methods – scored, tape hinges, ring Accept other valid responses.	gs, comb.	2 × 2	[4]			
3	(a)	Accept any four additional suitable points – interesting topic, bright colo to switch on, low voltage supply, automatic/timed switch off. Accept other valid responses	urs, safe ir	n use, 1 × 4	•			
	(b)	Accept drawings of any two places – on bed head; bedside table, on wa electrical socket. Accept other valid responses.	all; from ce	iling, ir 2 × 2	י [4]			
Questions 1, 2 and 3								
	(c)	(c) Any suitable ideas. At least three different ideas for maximum marks. Pro rata if fe						
		Communication Simple drawings displaying a low standard or limited range of technique		0–2				
		Clear drawings displaying a good standard and a range of techniques – /colour/annotation, etc.	U	3–4				
		High quality drawings using a wide range of techniques with clear annot and detail	otation	5–6	[12]			
		Suitability Simplistic designs showing outlines only Rather more detail, sensible solutions that could work Accurate solutions, good fitness for purpose, construction detail		0–2 3–4 5–6	[12]			
	(d)	Evaluation of each of the ideas. At least 3 evaluations up to 2 marks each Selection and justification. (1 + 1)	ch	0–6 2	[8]			

Page 3	Mark Scheme	Syllabus	Рар	er
	Cambridge IGCSE – October/November 2016	0445	11	
	Quality of drawing Poor line quality, proportions, little detail Good line work, use of colour, proportions, some detail		1 2–3	
	High standard throughout with a range of techniques that show clearly a	all detail	4	
	Dimensions 2 or 3 overall dimensions only – (1) Additional detail dimensions – (1)		2	
	onstruction details simplistic approach showing little or no detail of construction to be used ost constructional detail may be obvious from overall views or with some		0–2	
	annotation All constructional detail will be clear with good annotation and additiona		3-4	[40
	drawings as necessary		5–6	[12
• •	Suitable specific materials stated. (1 + 1) Appropriate reasons for choice. (1 + 1)		2 2	[4]
	Suitable method described. Good detailed description of: processes tools.		1 0–3 0–2	[6]
				[50]