

Cambridge International Examinations

Cambridge International General Certificate of Secondary Education

DESIGN AND TECHNOLOGY

0445/11

Paper 1 Product Design

October/November 2016

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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Pa	ige 2		Syllabus	Рар	er		
		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	knock	ed [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/round	[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 colours, safe it to switch on, low voltage supply, automatic/timed switch off. Accept other valid responses		n use, easy			
				1 × 4	[4]		
	(b)	Accept drawings of any two places – on bed head; bedside table, on wa	all; from ce	iling, ir	1		
		electrical socket. Accept other valid responses.		2 × 2	[4]		
Questions 1, 2 and 3							
	(c)	Any suitable ideas. At least three different ideas for maximum marks. Pro rata if few Communication					
		Simple drawings displaying a low standard or limited range of technique Clear drawings displaying a good standard and a range of techniques –		0–2			
	/colour	/colour/annotation, etc. High quality drawings using a wide range of techniques with clear annot		3–4			
		and detail		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	Pap	er			
_	Cambridge IGCSE – October/November 2016	0445	11				
(e) Quality of drawing							
	Poor line quality, proportions, little detail		1				
	Good line work, use of colour, proportions, some detail		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				
			_				
	Construction details						
	A simplistic approach showing little or no detail of construction to be used Most constructional detail may be obvious from overall views or with some annotation All constructional detail will be clear with good annotation and additional detail drawings as necessary		0–2				
			3-4				
			5–6	[12]			
/f \	Cuitable anaifia materiale stated (1 1)		2				
	Suitable specific materials stated. (1 + 1) Appropriate reasons for choice. (1 + 1)		2	[4]			
	Appropriate reasons for choice. (1 + 1)			[ד]			
(g)	Suitable method described.		1				
	Good detailed description of: processes		0–3				
	tools.		0–2	[6]			
				[50]			