

Cambridge International Examinations

Cambridge International General Certificate of Secondary Education

DESIGN AND TECHNOLOGY

0445/11

Paper 1 Product Design

May/June 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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P	age 2		Syllabus				
		Cambridge IGCSE – May/June 2016	0445	1	1		
1	(a)	Accept any four additional suitable points – easy to access, lid to stop s hygienic, easy to wash out, easy to remove/empty, labels for materials. Accept other valid responses.	·	1 × 4)	[4]		
	(b)	Accept drawings of any two places – in a cupboard, on the wall, under vin corner, on a door. Accept other valid responses.	•	2 × 2)	[4]		
2	(a)	Accept any four additional suitable points – attractive colour/shape, has invites people to read, stable in use, lightweight to carry/transport, easy up/dismantle, information about recycling. Accept other valid responses.	to fold	1 × 4)	[4]		
	(b)	Accept drawings of any two holding methods – ledges, pockets, rubber clips, 'velcro', adhesives. Accept other valid responses.		2 × 2)	[4]		
3	(a)	Accept any four additional suitable points – simple to operate, safe in unforce required, easy to clean, safety lock, fixed to wall. Accept other valid responses.		1 × 4)	[4]		
	(b)	Accept drawings of any two mechanisms – screw jaws, levers, cams, rapinion. 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 rate fewer.						
		Communication Simple drawings displaying a low standard or limited range of technique Clear drawings displaying a good standard and a range of techniques – /colour/annotation etc. High quality drawings using a wide range of techniques with clear annot detail.	shading	(0–2) (3–4) (5–6)			
		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]		

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	Evaluation of each of the ideas. At least 3 evaluations up to 2 marks ear Selection and justification. (1+1)	ch.	(0 - 6) (2)	[8]
` ,	Quality of drawing Poor line quality, proportions, little detail Good line work, use of colour, proportions, some detail High standard throughout with a range of techniques that show clearly a	all detail.	(1) (2–3) (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 use Most constructional detail may be obvious from overall views or with solannotation. All constructional detail will be clear with good annotation and additiona drawings as necessary.	me	(0–2) (3–4) (5–6)	[12]
(f)	Suitable specific materials stated. (1+1) Appropriate reasons for choice. (1+1)		(2)	[4]
	Suitable method described. Good detailed description of: processes, tools.		(1) (0–3) (0–2)	[6]

Mark Scheme

Syllabus

Paper

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