

Cambridge International Examinations Cambridge International General Certificate of Secondary Education

DESIGN AND TECHNOLOGY

0445/11 May/June 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.

Cambridge will not enter into discussions about these mark schemes.

Cambridge is publishing the mark schemes for the May/June 2016 series for most Cambridge IGCSE[®], Cambridge International A and AS Level components and some Cambridge O Level components.

® IGCSE is the registered trademark of Cambridge International Examinations.

www.xtrapapers.com

D	200 (Mark Scheme	Syllabus	Dan	or
Pa	age 2	Cambridge IGCSE – May/June 2016	<u>Syllabus</u> 0445	Pap 11	
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.	mell,	1 × 4)	[4]
	(b)	Accept drawings of any two places – in a cupboard, on the wall, under v in 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 us force 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, ra pinion. Accept other valid responses.		2 × 2)	[4]
Qu	estio	ns 1, 2 and 3			
	(c)	Any suitable ideas. At least three different ideas for maximum marks. F fewer.	Pro rata if		
		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 ation and	(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]

www.xtrapapers.com

Page 3	Mark Scheme	Syllabus	Pap	er
	Cambridge IGCSE – May/June 2016	0445	11	
(d)	(d) Evaluation of each of the ideas. At least 3 evaluations up to 2 marks each. Selection and justification. (1+1)			[8]
(e)	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 so annotation.	me	(0–2) (3–4)	
	All constructional detail will be clear with good annotation and additional detail drawings as necessary.		(5–6)	[12]
(f)	Suitable specific materials stated. (1+1) Appropriate reasons for choice. (1+1)		(2) (2)	[4]
(g)	Suitable method described. Good detailed description of: processes, tools.		(1) (0–3) (0–2)	[6]
				I: 50]