MARK SCHEME for the October/November 2014 series

0445 DESIGN AND TECHNOLOGY

0445/13

Paper 1 (Design), maximum raw mark 50

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.

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Pa	age 2		/llabus	Рар	er			
		Cambridge IGCSE – October/November 2014	0445	13				
1	(a)	Accept any four additional suitable points – easy to move around, easy to easy access to tools, easy to store, protects sharp tools, etc.		ghtwei 1 × 4	ght, [4]			
	(b)	Accept drawings of any two holding methods – holes, slots, spring clips, ele recesses, tubes, etc.		nds, 2 × 2	[4]			
2	(a)	Accept any four additional suitable points – hygienic issues, no contaminat management, easy opening, clear labelling, stacking requirements, recycle		sture 1 × 4	[4]			
	(b)	Accept drawings of any two manufacturing methods – any shape of 'box', p systems, development, vacuum form, etc.	•	l/plasti 2 × 2	c [4]			
3	(a)	Accept any four additional suitable points – easy to use from front, stable in 'style', lockable at any height, freestanding, fix any screen, etc.		omput 1 × 4	er [4]			
	(b)	Accept drawings of any two adjustment methods – ratchet, rack and pinion worm gear, pivot/lever, telescopic, sliders, etc.		er bala 2 × 2	nce, [4]			
Questions 1, 2 and 3								
	(c)	Any suitable ideas. At least three different ideas for maximum marks. Pro rata if fewer.						
		Communication Simple drawings displaying a low standard or limited range of techniques Clear drawings displaying a good standard and a range of techniques – sha /colour/annotation etc. High quality drawings using a wide range of techniques with clear annotation	•	0–2 3–4 etail 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]			
	(d)	Evaluation of each of the ideas. At least 3 evaluations up to 2 marks each Selection and justification $(1 + 1)$		0–6 2	[8]			

age 3	Mark Scheme	Syllabus	Рар	er
	Cambridge IGCSE – October/November 2014	0445	13	3
(e)	Quality of drawing		4	
	Poor line quality, proportions, little detail		1 2–3	
	Good line work, use of colour, proportions, some detail	all datail		
	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 use		0–2	
	Most constructional detail may be obvious from overall views or with so	me annotat		
	All constructions left it will be also with as ad any station and additions	المامة الماسم	3–4	
	All constructional detail will be clear with good annotation and additiona	ii detali drav		
	necessary		5–6	ניצן
(f)	Suitable specific materials stated (1 + 1)		2	
	Appropriate reasons for choice (1 + 1)		2	[4]
(g)	Suitable method stated		1	
(0)	Good detailed description of: processes		0–3	
	tools		0–2	[6]
				[50]