## MARK SCHEME for the October/November 2014 series

## 0445 DESIGN AND TECHNOLOGY

0445/11

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.

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T uge z	Cambridge IGCSE – October/November 2014	0445	11	
1 (a)	Accept any <b>four</b> additional suitable points – resists water, hygienic, eas matches bathroom style, sections labelled, acts as seat, etc.	y access fo	or items 1 × 4	s, [4]
(b)	Accept drawings of any <b>two</b> suitable ways – timber, halving, through/sto dowel, fabric, shelves, etc.		sing, bu 2 × 2	ıtt, [4]
2 (a)	Accept any <b>four</b> additional suitable points – appealing to customers, ref colourful, lightweight/easy to carry, folds up for storage, etc.	flects 'laund	dry', sta 1 × 4	able, [4]
(b)	Accept drawings of any <b>two</b> flexible joints – scored, tape, rings, comb, o etc.		c hinge 2 × 2	, [4]
3 (a)	Accept any <b>four</b> additional suitable points – does not dirty clothes, weat to operate, cannot catch fingers in mechanism, easy to reach, etc.	therproof, e	easy/sir 1 × 4	nple [4]
(b)	Accept any <b>two</b> mechanisms – pulley system, gear train, chain and sprewinding drum, etc.		net, 2 × 2	[4]
Questic	ns 1, 2 and 3			
(c)	Any suitable ideas. At least three different ideas for maximum marks. I	Pro rata if fe	ewer.	
	<b>Communication</b> Simple drawings displaying a low standard or limited range of technique Clear drawings displaying a good standard and a range of techniques – shading/colour/annotation etc. High quality drawings using a wide range of techniques with clear anno	-	0–2 3–4 detail 5–6	
	Suitability Simplistic designs showing outlines only Rather more detail, sensible solutions that could work Accurate solutions, good fitness for purpose, detailed construction		0–2 3–4 5–6	[12]
(d)	Evaluation of each of the ideas. At least 3 evaluations up to 2 marks ea Selection and justification $(1 + 1)$	ch	0–6 2	[8]

age 3	Mark Scheme	Syllabus	Рар	er
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(e)	Quality of drawing			
	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		
			3–4	
	All constructional detail will be clear with good annotation and additiona	l detail drav	-	
	necessary		5–6	[12]
(f)	Suitable <b>specific</b> materials stated. (1 + 1)		2	
	Appropriate reasons for choice (1 + 1)		2	[4]
(a)	Suitable method stated		1	
(9)	Good detailed description of: processes		3	
	tools		2	[6]
			-	[~]
				[50]