## MARK SCHEME for the May/June 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.

Cambridge is publishing the mark schemes for the May/June 2014 series for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level components and some Ordinary Level components.



Pa	ge 2	Mark Scheme Syllabus		•			
		IGCSE – May/June 2014 0445	13				
(a)	-	any <b>four</b> additional suitable points – store sizes separately, a positioned on wall / desk / floor, easy to place / remove envelope		[4]			
(b)	-	Irawings of any <b>two</b> suitable methods – paper knife, scissors, uillotine, steam / peel open, etc.	slice with $(2 \times 2)$	[4]			
(c)	Any suitable ideas. At least <b>three different</b> ideas for maximum marks. Pro rata if fewer.						
	Clear dra /colour/a	nication Irawings displaying a low standard or limited range of technique awings displaying a good standard and a range of techniques nnotation etc. ality drawings using a wide range of techniques with clear annot	- shading (3–4)				
	Rather m	i <b>ty</b> c designs showing outlines only nore detail, sensible solutions that could work e solutions, good fitness for purpose, detailed construction	(0–2) (3–4) (5–6)	[12]			
(d)		on of each of the ideas. At least 3 evaluations up to 2 marks eac n and justification. (1+1)	ch (0–6) (2)	[8]			
(e)	Poor line Good line	<b>of drawing</b> e quality, proportions, little detail e work, use of colour, proportions, some detail ndard throughout with a range of techniques that show clearly a	(1) (2–3) Il detail (4)				
	Dimensi	ions 2 or 3 overall dimensions only – 1 Additional detail dimensions – 2	(2)				
	A simplis	<b>ction details</b> stic approach showing little or no detail of construction to be use nstructional detail may be obvious from overall views or w on	· · ·				
		tructional detail will be clear with good annotation and additions are clear with good annotation and additions as necessary		[12]			
(f)		<b>specific</b> materials stated. (1+1) ate reasons for choice. (1+1)	(2) (2)	[4]			
(g)		method stated. tailed description of: processes; tools.	(1) (3) (2)	[6]			
			[Total	l: <b>50</b> ]			

Pa	ge 3	Mark Scheme Syllabus	Paper	•			
		IGCSE – May/June 2014 0445	13				
(a)		iny <b>four</b> additional suitable points – suitable size / shape for handling theme / colour, items easy to access, protect items, etc.	ing, (1 × 4)	[4]			
(b)	Accept of add wire	ers, (2 × 2)	[4]				
(c)	c) Any suitable ideas. At least three different ideas for maximum marks. Pro rata fewer.						
	Clear dra /colour/a	nication rawings displaying a low standard or limited range of techniques awings displaying a good standard and a range of techniques – shac nnotation etc. lity drawings using a wide range of techniques with clear annotation a	(3–4)				
	Rather m	<b>ty</b> c designs showing outlines only nore detail, sensible solutions that could work solutions, good fitness for purpose, detailed construction	(0–2) (3–4) (5–6)	[12]			
(d)		on of each of the ideas. At least 3 evaluations up to 2 marks each a and justification. (1+1)	(0–6) (2)	[8]			
(e)	Poor line Good line	of drawing quality, proportions, little detail e work, use of colour, proportions, some detail ndard throughout with a range of techniques that show clearly all detai	(1) (2–3) il (4)				
	Dimensi	ons 2 or 3 overall dimensions only – 1 Additional detail dimensions – 2	(2)				
	A simplis	<b>ction details</b> tic approach showing little or no detail of construction to be used nstructional detail may be obvious from overall views or with so on	(0–2) ome (3–4)				
		ructional detail will be clear with good annotation and additional de as necessary		[12]			
(f)		<b>specific</b> materials stated. (1+1) ate reasons for choice. (1+1)	(2) (2)	[4]			
(g)		method stated. tailed description of: processes; tools.	(1) (3) (2)	[6]			
			[Total	l: <b>50</b> ]			

Pag	ge 4	4 Mark Scheme		Syllabus	Paper			
		IGCSE	– May/June 2014	0445	13			
(a)	Accept any <b>four</b> additional suitable points – easy to use by anyone, register paper, amount of effort required, suggested size / weight / material, etc.					[4]		
(b)	Accept any <b>two</b> methods – lever, cam, slider, screw, spring return, etc.					[4]		
	Any suitable ideas. At least <b>three different</b> ideas for maximum marks. Pro rata if fewer.							
	Clear dra /colour/a	rawings displaying a awings displaying a દ્ nnotation etc.	low standard or limited range of good standard and a range of wide range of techniques with	techniques - shadir	(3–4)			
	Rather m	c designs showing ou nore detail, sensible s	utlines only solutions that could work ess for purpose, detailed constr	ruction	(0–2) (3–4) (5–6)	[12]		
(d)		on of each of the idea and justification. (1-	as. At least 3 evaluations up to +1)	2 marks each	(0–6) (2)	[8]		
(e)	Poor line Good line	-	little detail , proportions, some detail h a range of techniques that sh	ow clearly all detail	(1) (2–3) (4)			
	Dimensi		dimensions only – 1 tail dimensions – 2		(2)			
			g little or no detail of construction nay be obvious from overall		(0–2) ne (3–4)			
	All const		be clear with good annotation	and additional deta		[12]		
(f)	Suitable <b>specific</b> materials stated. (1+1) Appropriate reasons for choice. (1+1)					[4]		
(g)		method stated. tailed description of:	processes; tools.		(1) (3) (2)	[6]		
	[Total					: 50]		