## 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	ous Paper			
		IGCSE – May/June 2014 0445	13			
(a)	Accept a visible, p	ddresses s, etc. $(1 \times 4)$	[4]			
(b)	Accept c blade / g	lice with $(2 \times 2)$	[4]			
(c)	Any suitable ideas. At least <b>three different</b> ideas for maximum marks. Pro rata i 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 – nnotation etc. ality drawings using a wide range of techniques with clear annota	shading (3–4)			
	Rather m	<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 each n and justification. (1+1)	n (0–6) (2)	[8]		
(e)	Poor line Good line	<b>Quality of drawing</b> 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 all detail				
	Dimensi	ons 2 or 3 overall dimensions only – 1 Additional detail dimensions – 2	(2)			
	<b>Construction details</b> A simplistic approach showing little or no detail of construction to be used Most constructional detail may be obvious from overall views or with annotation		· · ·			
		tructional detail will be clear with good annotation and addition 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]		
			[Tota	l: <b>50</b> ]		

Pa	ge 3	Mark Scheme Syllabus	Paper					
		IGCSE – May/June 2014 0445	13					
(a)	Accept a interestir	dling, (1 × 4)	[4]					
(b)	Accept of add wire	iyers, (2 × 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 rawings displaying a low standard or limited range of techniques awings displaying a good standard and a range of techniques – sha nnotation etc. lity drawings using a wide range of techniques with clear annotatior	(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 det	(1) (2–3) tail (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 s on	(0–2) some (3–4)					
	All const	ructional detail will be clear with good annotation and additional of 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	: 50]				

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			IGCSE	– May/June 2014	0445	13			
3	(a)	Accept any <b>four</b> additional suitable points – easy to use by anyone, register for paper, amount of effort required, suggested size / weight / material, etc.				for (1 × 4)	[4]		
	(b)	Accept a	(2 × 2)	[4]					
	(c)	Any suitable ideas. At least <b>three different</b> ideas for maximum marks. Pro rata if fewer.							
		Clear dra /colour/a	lrawings displaying a awings displaying a nnotation etc.	a low standard or limited range good standard and a range of a wide range of techniques with	techniques – shadii	(3–4)			
		Rather m	c designs showing o nore detail, sensible	outlines only solutions that could work ess for purpose, detailed constr	ruction	(0–2) (3–4) (5–6)	[12]		
	(d)		on of each of the ide n 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 r, proportions, some detail th a range of techniques that sh	now clearly all detail	(1) (2–3) (4)			
		Dimensi		l dimensions only – 1 etail dimensions – 2		(2)			
		Construction detailsA simplistic approach showing little or no detail of construction to be used(0-2)Most constructional detail may be obvious from overall views or with some annotation(3-4)							
		All constructional detail will be clear with good annotation and additional detail drawings as necessary (5							
	(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]		