CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the October/November 2012 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 October/November 2012 series for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level components and some Ordinary Level components.

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	-9	IGCSE – October/November 2012	0445	800	
(a)	Accept any four additional suitable points – easy to clean, suitable for bathroom environment, matches bathroom, easy access when in use, etc.		Abacann (1 × 4	bridge	
(b)	Accept drawings of any two access methods, open shelves, slots, holes, flaps etc.			(2 × 2)	[4]
(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 – shading /colour/annotation etc High quality drawings using a wide range of techniques with clear annotation and detail			(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, detailed construction			(0 - 2) (3 - 4) (5 - 6)	[12]
(d)	Evaluation of each of the ideas. At least 3 evaluations up to 2 marks each		(0 - 6)		
	Selection	n and justification. (1+1)		(2)	[8]
(e)	Poor line Good line	of drawing equality, proportions, little detail e work, use of colour, proportions, some detail ndard throughout with a range of techniques tha	t show clearly all	(1) (2-3) (4)	
		ons erall dimensions only (1) al detail dimensions (2)		(2)	
	A simplis Most cor annotation		ews or with some	(0-2) $(3-4)$	
		ructional detail will be clear with good annotation an s as necessary	d additional detail	(5 - 6)	[12]
(f)	Suitable	specific materials stated. (1+1)		(2)	
	Appropri	ate reasons for choice. (1+1)		(2)	[4]
(g)		method described. tailed description of: processes tools.		(1) (3) (2)	[6]

Mark Scheme

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Syllabus

[Total: 50]

	<u>.g</u>	IGCSE – October/November 2012	0445	80	
		IGCSE - October/November 2012	0445	S.C.	
(a)	Accept any four additional suitable points – colourful, attract attention, stable in use, easy to assemble, display of SPF issues, sun image, etc.			ANACAMA (1×4	bridge
(b)	Accept drawings of any two methods of display – shelves, clips, racks, hanging, etc.			(2 × 2)	[4]
(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 – shading /colour/annotation etc High quality drawings using a wide range of techniques with clear annotation			(0 – 2) (3 – 4)	
	and deta			(5 - 6)	
	Rather m	ty c designs showing outlines only nore detail, sensible solutions that could work solutions, good fitness for purpose, detailed constru	uction	(0-2) (3-4) (5-6)	[12]
(d)	Evaluation	on of each of the ideas. At least 3 evaluations up to	2 marks each	(0 - 6)	
	Selection	and justification. (1+1)		(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	(1) (2 – 3) (4)	
		ons erall dimensions only (1) al detail dimensions (2)		(2)	
	A simplis	ction details tic approach showing little or no detail of construction structional detail may be obvious from overall vie		(0 – 2)	
	annotatio	on		(3 - 4)	
		ructional detail will be clear with good annotation and as necessary	d additional detail	(5 – 6)	[12]
(f)	Suitable	specific materials stated. (1+1)		(2)	
	Appropri	ate reasons for choice. (1+1)		(2)	[4]
(g)		method described. tailed description of: processes tools.		(1) (3) (2) [Total:	[6] 50]

Mark Scheme

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Syllabus

Page 4		Mark Schome Syllahua		SO L	
Page 4		Mark Scheme IGCSE – October/November 2012	Syllabus 0445	8	=
		ICCOL - October/November 2012	0440	SC.	
(a)	Accept any four additional suitable points – simple to adjust, hygienic, easy to clean, suits wet environment, include light source, etc.			(1 × 4) (2 × 2)	Shide
(b)	Accept any two adjustment systems/mechanisms- counterweight, scissor action, sliders, telescope, etc.			(2 × 2)	[4]
(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 – shading /colour/annotation etc High quality drawings using a wide range of techniques with clear annotation and detail		(0-2) (3-4) (5-6)		
	Rather m	ty c designs showing outlines only nore detail, sensible solutions that could work solutions, good fitness for purpose, detailed constru	uction	(0-2) (3-4) (5-6)	[12]
(d)	Evaluation	on of each of the ideas. At least 3 evaluations up to	2 marks each	(0 - 6)	
	Selection	and justification. (1+1)		(2)	[8]
(e)	Poor line Good line High sta detail Dimensi 2 or 3 ov	of drawing quality, proportions, little detail e work, use of colour, proportions, some detail ndard throughout with a range of techniques that ons erall dimensions only (1) al detail dimensions (2)	t show clearly all	(1) (2 - 3) (4)	
	Construction details A simplistic approach showing little or no detail of construction to be used Most constructional detail may be obvious from overall views or with some annotation All constructional detail will be clear with good annotation and additional detail			(2) (0 - 2) (3 - 4)	
(f)	_	s as necessary specific materials stated. (1+1)		(5 – 6) (2)	[12]
	Appropri	ate reasons for choice. (1+1)		(2)	[4]
(g)		method described. tailed description of: processes tools.		(1) (3) (2) [Total:	[6] 50]

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