CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

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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.

Page 2		Mark Scheme	Syllabus	S.		
	U	IGCSE – October/November 2012	0445	Spar 1		
(a)		any four additional suitable points – easy to on a nenvironment, matches bathroom, easy access wh	clean, suitable for nen in use, etc.	(1 × 4) (2 × 2)	bride	
(b)	Accept d etc.	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				
	shading					
	Rather n	i ty c designs showing outlines only nore detail, sensible solutions that could work e solutions, good fitness for purpose, detailed const	ruction	(0-2) (3-4) (5-6)	[12	
(d)	Evaluatio	on of each of the ideas. At least 3 evaluations up to	o 2 marks each	(0 – 6)		
	Selection	n and justification. (1+1)		(2)	[8	
(e)	Poor line Good lin	of drawing e quality, proportions, little detail e work, use of colour, proportions, some detail indard throughout with a range of techniques tha	at show clearly al	(1) (2-3) I (4)		
		i ons rerall dimensions only (1) al detail dimensions (2)		(2)		
		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		(0-2) (3-4)			
		annotation All constructional detail will be clear with good annotation and additional detail				
	drawings	s as necessary		(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]	

Pa	nge 3	Mark Scheme S	yllabus	A T		
	V	IGCSE – October/November 2012	0445	SD3		
(a)	•	ge 3Mark SchemeSyllabusIGCSE – October/November 20120445Accept any four additional suitable points – colourful, attract attention, stable in use, easy to assemble, display of SPF issues, sun image, etc.Accept drawings of any two methods of display – shelves, clips, racks, hanging, etc.				
(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 detail					
	Rather m	ty c designs showing outlines only nore detail, sensible solutions that could work e solutions, good fitness for purpose, detailed construction	I	(0-2) (3-4) (5-6)	[1	
(d)	Evaluatio	on of each of the ideas. At least 3 evaluations up to 2 ma	rks each	(0-6)		
	Selectior	n and justification. (1+1)		(2)	[
(e)	Quality of drawing 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		(1) (2 – 3)			
			(4)			
		ons erall dimensions only (1) al detail dimensions (2)		(2)		
	A simplis	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		(0 – 2)		
	annotatio			(3 – 4)		
		as necessary		(5 – 6)	[1	
(f)	Suitable	specific materials stated. (1+1)		(2)		
	Appropri	ate reasons for choice. (1+1)		(2)	[
(g)		method described. tailed description of: processes tools.		(1) (3) (2)	[

Pa	age 4	Mark Scheme	Syllabus	S.		
		IGCSE – October/November 2012	0445	No.		
(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)	abild	
(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.					
	Commu Simple d	nication rawings displaying a low standard or limited range o	f techniques	(0 – 2)		
	Clear dr shading	Clear drawings displaying a good standard and a range of techniques – shading /colour/annotation etc				
	and deta	High quality drawings using a wide range of techniques with clear annotation and detail				
	Rather n	ty c designs showing outlines only nore detail, sensible solutions that could work e solutions, good fitness for purpose, detailed constru	uction	(0 - 2) (3 - 4) (5 - 6)	[12	
(d)		on of each of the ideas. At least 3 evaluations up to 2		(0 – 6)		
	Selection	n and justification. (1+1)		(2)	[8	
(e)	Quality of drawing 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			(1) (2 – 3)		
	detail Dimens i		soury an	(4)		
	Additiona	al detail dimensions (2)		(2)		
	A simplis	stic approach showing little or no detail of constructio nstructional detail may be obvious from overall vie		(0 – 2)		
	All const	All constructional detail will be clear with good annotation and additional detail drawings as necessary				
					[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		(1) (3)		
		tools.		(3)	[
				[Total:	501	