CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

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0445 DESIGN AND TECHNOLOGY

0445/12

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	2	C
		IGCSE – October/November 2012	0445	Da	
(a)		any four additional suitable points – easy to ed, hygienic, easy to clean, comfortable/ergonomic h	load/unload, well nandle, etc.	papaCa. (1x4) (2x2)	mbride
(b)	Accept drawings of any two types of carrying handle – leather strap, rope, case type, lip on material, cut-out in material, knobs, etc.			(2x2)	[4]
(c)	Any su rata if fe	itable ideas. At least three different ideas for ma ewer.			
	Simple Clear o shading High qu	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			
	Rather	lity tic designs showing outlines only more detail, sensible solutions that could work te solutions, good fitness for purpose, detailed const	truction	(0-2) (3-4) (5-6)	[12]
(d)	Evaluat	ion of each of the ideas. At least 3 evaluations up to	o 2 marks each	(0-6)	
	Selection	on and justification. (1+1)		(2)	[8]
(e)	Poor lir Good li	r of drawing ne quality, proportions, little detail ne work, use of colour, proportions, some detail candard throughout with a range of techniques tha	at show clearly all	(1) (2-3) (4)	
	Dimen	sions 2 or 3 overall dimensions only (1) Additional detail dimensions (2)		(2)	
	A simpl	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			
	annota All cons	-		(3-4) (5-6)	[12]
(f)	Suitable	e specific materials stated. (1+1)		(2)	
	Approp	riate reasons for choice. (1+1)		(2)	[4]
(g)		e method described. etailed description of: processes tools.		(1) (3) (2) [Tot a	[6] al: 50]

Page 3		Mark Scheme	Syllabus	0		
	•	IGCSE – October/November 2012	0445	Da		
(a)	hygieni	ge 3 Mark Scheme Syllabus IGCSE – October/November 2012 0445 Accept any four additional suitable points – colourful, attract attention, hygienic, bags cannot blow/fall out, capacity for daily emptying, can be folded for post, easy to load/unload, etc. Accept drawings of any two attraction methods, large/simple lettering, movement, lighting, 3-D, sound, etc.				
(b)	Accept drawings of any two attraction methods, large/simple lettering, movement, lighting, 3-D, sound, etc.			(2x2)	[4]	
(c)	Any su rata if fe	itable ideas. At least three different ideas for maxim ewer.				
	Communication Simple drawings displaying a low standard or limited range of techniques					
	shading	Clear drawings displaying a good standard and a range of techniques – shading /colour/annotation etc				
	and det	High quality drawings using a wide range of techniques with clear annotation and detail				
	Rather	tic designs showing outlines only more detail, sensible solutions that could work te solutions, good fitness for purpose, detailed construct	ction	(0-2) (3-4) (5-6)	[12]	
(d)	Evaluat	ion of each of the ideas. At least 3 evaluations up to 2	marks each	(0-6)		
	Selectio	on and justification. (1+1)		(2)	[8]	
(e)	Poor lin Good li	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					
		sions overall dimensions only (1) nal detail dimensions (2)		(2)		
	A simpl	uction details istic approach showing little or no detail of construction onstructional detail may be obvious from overall view		(0-2)		
	annotat	•		(3-4)		
		is as necessary		(5-6)	[12]	
(f)	Suitable	e specific materials stated. (1+1)		(2)		
	Approp	riate reasons for choice. (1+1)		(2)	[4]	
(g)		e method described. etailed description of: processes		(1) (3)		
	tools.				[6]	
				ſTota	l: 50]	

Page 4	Mark Scheme	Syllabus	2	
	IGCSE – October/November 2012	0445	Day	
colo	4 Mark Scheme Syllabus IGCSE – October/November 2012 0445 Accept any four additional suitable points – simple to play with, bright colours, easy to clean, safe shape, hygienic, rugged design, more than one child, etc. Accept any two types of movement, paddle wheel, slide, chute, bucket belt,			
• •	Accept any two types of movement, paddle wheel, slide, chute, bucket belt, balance, screw, etc.			
	suitable ideas. At least three different ideas for maxif fewer.	kimum marks. Pro		
Sim Clea shao High	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			
Sim Rati	ability plistic designs showing outlines only her more detail, sensible solutions that could work urate solutions, good fitness for purpose, detailed constr	ruction	(5-6) (0-2) (3-4) (5-6)	[12]
(d) Eva	luation of each of the ideas. At least 3 evaluations up to	2 marks each	(0-6)	
Sele	ection and justification. (1+1)		(2)	[8]
Poo Goo	l lity of drawing r line quality, proportions, little detail d line work, use of colour, proportions, some detail n standard throughout with a range of techniques tha il	at show clearly all	(1) (2-3) (4)	
2 or	ensions 3 overall dimensions only (1) itional detail dimensions (2)		(2)	
A si Mos ann All c	struction details mplistic approach showing little or no detail of construction t constructional detail may be obvious from overall vie otation constructional detail will be clear with good annotation ar vings as necessary	ews or with some	(0-2) (3-4) (5-6)	[12]
(f) Suit	able specific materials stated. (1+1)		(2)	
Арр	ropriate reasons for choice. (1+1)		(2)	[4]
	able method described. d detailed description of: processes tools.		(1) (3) (2) [Total	[6] : 50]