WAN PARS

## **UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS**

**International General Certificate of Secondary Education** 

## MARK SCHEME for the October/November 2011 question paper for the guidance of teachers

## 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 must be read in conjunction with the question papers and the report on the examination.

• Cambridge will not enter into discussions or correspondence in connection with these mark schemes.

Cambridge is publishing the mark schemes for the October/November 2011 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

Page 2		Mark Scheme: Teachers' version	Syllabus	0			
r age z		IGCSE – October/November 2011	0445	00			
(a)	Accept furniture	dhaCal	Mbridge				
(b)	Accept hinging	(2x2)	[4]				
(c)	Any suitable ideas. At least <b>three different</b> ideas for maximum marks. Pro rata if fewer <b>Communication</b> 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 det Suitabi Simplis Rather Accurat		(5–6) (0–2) (3–4) (5–6)	[12]			
(d)		cion of each of the ideas. At least 3 evaluations up to on and justification(1+1)	o 2 marks each	(0–6) (2)	[8]		
(e)	Poor lin Good lin High st detail Dimens  Constr A simpl Most co annotat All con	Additional detail dimensions – 2  uction details  istic approach showing little or no detail of construct  onstructional detail may be obvious from overall vi	ion to be used lews or with some	(1) (2–3) (4) (2) (0–2) (3–4) (5–6)	[12]		
(f)		e <b>specific</b> materials stated riate reasons for choice		(2) (2)	[4]		
(g)		e method stated etailed description of: processes tools		(1) (3) (2)	[6]		

1

[Total: 50]

Page 3		Mark Scheme: Teachers' version Syllabus							0	
1 age 3			GCSE - Oct				0445		000	
(a)	Accept any <b>four</b> additional suitable points – lightweight, easy to carry, strong handles, easily assembled, easy to clean, ventilation for pet, etc.							ng	dibacal (1x4)	Abridge
(b)	Accept any <b>two</b> strengthening methods – corrugation, folding, ridges, additional tape, etc.								(2x2)	[4]
(c)	Any suitable ideas. At least <b>three different</b> 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)	
	Suitability Simplistic designs showing outlines only Rather more detail, sensible solutions that could work Accurate solutions, good fitness for purpose, detailed construction							(5–6) (0–2) (3–4) (5–6)	[12]	
(d)			ch of the ide		t 3 evaluatio	ns up to	o 2 marks each		(0–6) (2)	[8]
(e)	Poor lin Good lin High st detail Dimens  Constr A simpl Most co annotat All con	ne work, candard to sions  uction doistic appropriate construction structions	, proportions use of colou hroughout versions 2 or 3 overa Additional details roach showing and detail necessions.	or, proportion vith a range of the clear of	ns, some de e of techniq ns only – 1 sions – 2 o detail of co ious from ov	jues that onstruct verall vi	at show clearly ion to be used lews or with sor	ne	(1) (2-3) (4) (2) (0-2) (3-4) (5-6)	[12]
(f)		Suitable <b>specific</b> materials stated Appropriate reasons for choice						(2) (2)	[4]	
(g)	Suitable method stated Good detailed description of: processes tools							(1) (3) (2)	[6]	

2

[Total: 50]

Page 4		Mark Scheme: Teachers' version Syllabus				0	[				
			IGCSE – October/November 2011 0445						Day		
3	(a)	Accept any <b>four</b> additional suitable points – lightweight, simple to use, no damage to fruit, accepts various fruit shapes and sizes, adjustable, comfortable to hold, etc.							Ond Co.	Morida	
	(b)	Accept any <b>two</b> adjustment systems – sliding in or on, tube in tube, twist to tighten/loosen, wing nuts, etc.								(2x2)	[4]
	(c)	rata if fee Commu Simple Clear d shading High qu and det Suitabi Simplist Rather I	ewer unicatio drawings drawing	s displaying displaying annotation awings using using showing tail, sensib	g a low stang a good setc.  In a good se	idard or limite tandard and inge of techn nly that could we	ed range a rang iques wi	ximum marks.  of techniques e of technique th clear annota	es –	(0-2) (3-4) (5-6) (0-2) (3-4)	[40]
		Accurat	.c solutio	nis, good i	itiloss for po	ırpose, detail	cu consi	iraction		(5–6)	[12]
	(d)			ach of the i		ast 3 evaluati	ons up t	o 2 marks eacl	h	(0–6) (2)	[8]
	(e)	Poor lin Good lir High sta detail Dimens  Constru A simpli Most co annotat All cons	ne work, andard sions uction d istic app onstruction struction	y, proportion use of column throughout 2 or 3 ove Additional details proach show onal detail	with a rangerall dimensing detail dimension wing little or may be obvill be clea	ions, some donge of technions only – 1 nsions – 2 no detail of covious from co	ques the construct overall v	at show clearl ion to be used iews or with s ion and additi	ome	(1) (2-3) (4) (2) (0-2) (3-4) (5-6)	[12]
	(f)		-	<b>ic</b> materials						(2) (2)	[4]
	(g)	Suitable method stated Good detailed description of: processes tools					(1) (3) (2)	[6]			

[Total: 50]