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## UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

**International General Certificate of Secondary Education** 

MARK SCHEME for the October/November 2010 question paper for the guidance of teachers

## 0445 DESIGN AND TECHNOLOGY

0445/11

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.

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CIE is publishing the mark schemes for the October/November 2010 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

Syllabus

		gc <b>-</b>	ICCCE October/Nevember 2040	0445	90	
			IGCSE – October/November 2010	0445	Sec	
1	(a)	keeps c	any <b>four</b> additional suitable points – easy access, a contents dry, can be locked by postman without key, house, easy to spot, etc		(1 × 4)	mbridge
	(b)	•	drawings of any <b>two</b> locking devices – padlock, con king catch, etc	nbination lock,	(2 × 2)	[4]
	(c)	Pro rata	table ideas. At least <b>three different</b> ideas for maxima if fewer unication	num marks.		
			drawings displaying a low standard or limited range rawings displaying a good standard and a range of t		(0–2)	
		shading/colour/annotation etc High quality drawings using a wide range of techniques with clear		(3–4)		
		•	tion and detail		(5–6)	
		Simplis	tic designs showing outlines only		(0-2)	
			more detail, sensible solutions that could work te solutions, good fitness for purpose, detailed const	truction	(3–4) (5–6)	[12]
	(d)		tion of each of the ideas. At least 3 evaluations up to on and justification (1 + 1)	o 2 marks each.	(0 <del>-</del> 6) (2)	[8]
	(e)	Quality	of drawing			
			ne quality, proportions, little detail ne work, use of colour, proportions, some detail		(1) (2–3)	
		High sta	andard throughout with a range of techniques that showns only – 1	w clearly all detail	(4)	
			Additional detail dimensions – 2  uction details		(2)	
		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			(0–2)	
					(3–4)	
			rawings as necessary	nd additional	(5–6)	[12]
	(f)		e <b>specific</b> materials stated (1 + 1) riate reasons for choice (1 + 1)		(2) (2)	[4]
	(g)		e method stated		(1)	
		(2004 4	atailed description of mathed including:			

Good detailed description of method, including:

Processes

Tools

Mark Scheme: Teachers' version

Page 2

[Total: 50]

[6]

(3) (2)

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	Page 3		Mark Scheme: Teachers' version Syllabus		r
		<u> </u>	IGCSE – October/November 2010 0445	Do-	
	(a)	Accept any <b>four</b> additional suitable points – attracts attention, colourful, easy to read, easy for child to handle, keeps clean, hygienic, etc		(1 × 4)	mbridge
	(b)	Accept drawings of any <b>two</b> types of movement – sliding parts, slots, pivots, fold out, etc			[4]
	(c)	Any suitable ideas. At least <b>three different</b> ideas for maximum marks.  Pro rata if fewer  Communication			
		Simple	(0–2)		
		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			
		Suitabi		(5–6)	
			tic designs showing outlines only more detail, sensible solutions that could work	(0–2) (3–4)	
			te solutions, good fitness for purpose, detailed construction	(5–6)	[12]
	(d)		tion of each of the ideas. At least 3 evaluations up to 2 marks each on and justification (1 + 1)	h. (0–6) (2)	[8]
	(e)	Poor lin Good lii	of drawing ne quality, proportions, little detail ne work, use of colour, proportions, some detail	(1) (2–3)	

Suitable **specific** materials stated (f) (1 + 1)(2) Appropriate reasons for choice (1 + 1)(2)

High standard throughout with a range of techniques that show clearly all detail

A simplistic approach showing little or no detail of construction to be used

All constructional detail will be clear with good annotation and additional

Most constructional detail may be obvious from overall views or with some

Additional detail dimensions - 2

**Dimensions** 2 or 3 overall dimensions only – 1

**Construction details** 

detail drawings as necessary

annotation

Suitable method stated (1)

Good detailed description of method, including: **Processes** (3) Tools (2) [6]

[Total: 50]

(4)

(2)

(0-2)

(3-4)

(5-6)

[12]

[4]

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	Page 4		Mark Scheme: Teachers' version	Syllabus	· D	<b>v</b>
	<u> </u>		IGCSE – October/November 2010	0445	Do	
3	(a)			(1 × 4)	mbride	
	(b)			(2 × 2)	[4]	
	(c)	Any suitable ideas. At least <b>three different</b> ideas for maximum marks.  Pro rata if fewer  Communication				
			drawings displaying a low standard or limited range rawings displaying a good standard and a range of		(0–2)	
		shading/colour/annotation etc  High quality drawings using a wide range of techniques with clear			(3–4)	
		annotat	annotation and detail  Suitability		(5–6)	
		Simplis	tic designs showing outlines only more detail, sensible solutions that could work		(0–2) (3–4)	
		Accurate solutions, good fitness for purpose, detailed construction		(5–6)	[12]	
	(d)		tion of each of the ideas. At least 3 evaluations up ton and justification (1 + 1)	to 2 marks each.	(0–6) (2)	[8]
	(e)	Poor ling Good ling High state Dimens  Construction A simple Most contain All constructions	r of drawing ne quality, proportions, little detail ne work, use of colour, proportions, some detail andard throughout with a range of techniques that sho sions 2 or 3 overall dimensions only – 1 Additional detail dimensions – 2 nuction details istic approach showing little or no detail of constructional detail may be obvious from overall view constructional detail will be clear with good annotation a rawings as necessary	ction to be used ws or with some	(1) (2–3) (4) (2) (0–2) (3–4) (5–6)	[12]
	( <b>f</b> )		e <b>specific</b> materials stated (1 + 1)		, ,	[14]
	(f)		riate reasons for choice (1 + 1)		(2) (2)	[4]

(g) Suitable method stated

Processes

Tools

Good detailed description of method, including:

[Total: 50]

[6]

(1)

(3) (2)