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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

0445/12

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 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		Paper			
		I	GCSE – October/No	vember 2011	0445	12	
(a)		Accept any four additional suitable points – reels held securely, easy to put in/take out, able to see different colours, stored in different sizes, portable, etc.			(1x4)	[4]	
(b)		Accept drawings of any two retaining methods – on dowels, in clips, held by elastic, in slots, separate sections, etc.				(2x2)	[4]
(c)	rata if fe Commu Simple Clear d shading	ewer unication drawings drawings g/colour/a uality drav	n displaying a low star displaying a good nnotation etc.	ndard or limited ran standard and a ra	maximum marks. Pro ge of techniques nge of techniques – with clear annotation	(0–2) (3–4) (5–6)	
	Simplist Rather	tic desigr more det	is showing outlines o ail, sensible solutions ns, good fitness for p	s that could work	nstruction	(0–2) (3–4) (5–6)	[12]
(d)	Evaluat	ion of ea	ch of the ideas. At le	east 3 evaluations u	p to 2 marks each	(0–6)	
()	Selection and justification (1+1)		•	(2)	[8]		
(e)	Poor lin Good lin High st detail Dimens Constru A simpli Most co annotat All cons	ne work, andard t sions uction d istic appronstruction	proportions, little de use of colour, propor hroughout with a ra 2 or 3 overall dimens Additional detail dimens etails oach showing little of onal detail may be of I detail will be clear v	tions, some detail nge of techniques sions only – 1 ensions – 2 r no detail of constru bvious from overal	that show clearly all uction to be used I views or with some	(1) (2–3) (4) (2) (0–2) (3–4) (5–6)	[12]
(f)		-	c materials stated cons for choice			(2) (2)	[4]
(g)		e method etailed d	stated escription of: process tools	ses		(1) (3) (2)	[6]

1

[Total: 50]

Page 3		Mark Scheme: Teachers' version Syllabus		Paper	
		IGCSE – October/November 2011	0445	12	
? (a)		any four additional suitable points – colourful, n, moving part, hygienic, does not break with daily us		(1x4)	[4]
(b)	•	Accept drawings of any two interesting features – children's characters, noving parts, viewing 'windows', etc.			
(c)	Any sui				
	Simple	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 Suitability			
	shading				
	Simplist Rather	tic designs showing outlines only more detail, sensible solutions that could work e solutions, good fitness for purpose, detailed cons	truction	(0–2) (3–4) (5–6)	[12]
(d) Evalua		tion of each of the ideas. At least 3 evaluations up to 2 marks each			
	Selection and justification (1+1)				[8]
(e)	Poor lin Good lin High st detail Dimens Constr A simpl Most co annotat All cons	Additional detail dimensions – 2 uction details istic approach showing little or no detail of construct onstructional detail may be obvious from overall v	tion to be used riews or with some	(1) (2-3) (4) (2) (0-2) (3-4) (5-6)	[12]
		,,		()	[·-j
(f)	Suitable	e specific materials stated		(2)	
	Approp	(2)	[4]		
(g)		e method stated etailed description of: processes tools		(1) (3) (2)	[6]

2

[Total: 50]

	Page 4		Mark Scheme: Teachers' version	Syllabus	Paper	•
			IGCSE – October/November 2011	0445	12	
3	(a)	Accept any four additional suitable points – simple to use, compact, large number of coins at one time, stacks sorted coins, wide range of coins, etc.				[4]
	(b)	Accept any four properties – weight, diameter, shape, thickness, metal type, value, etc.				[4]
	(c)	Any sui rata if fo				
		Simple	(0-2)			
		Clear of shading	(3–4)			
		High quality drawings using a wide range of techniques with clear annotation and detail				
		Suitabi			(5–6)	
		Simplist Rather	tic designs showing outlines only more detail, sensible solutions that could work te solutions, good fitness for purpose, detailed const	tru rotion	(0–2) (3–4) (5–6)	[12]
	(d)	Evaluat	tion of each of the ideas. At least 3 evaluations up to on and justification (1+1)		(0–6) (2)	[8]
	(e)		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			(4)	
		Dimensions 2 or 3 overall dimensions only – 1 Additional detail dimensions – 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 annotation				
		All constructional detail will be clear with good annotation and additional detail				
		drawing	gs as necessary		(5–6)	[12]
	(f)	Suitable	e specific materials stated		(2)	

[Total: 50]

[4]

[6]

(2)

(1)

(3)

(2)

tools

Appropriate reasons for choice

Good detailed description of: processes

Suitable method stated

(g)