UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

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0445 DESIGN AND TECHNOLOGY

0445/01

Paper 1 (Common Core), 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.

All Examiners are instructed that alternative correct answers and unexpected approaches in candidates' scripts must be given marks that fairly reflect the relevant knowledge and skills demonstrated.

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

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

CIE is publishing the mark schemes for the October/November 2008 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

Page 2	Mark Scheme	Syllabus 🔪	~	<u>er</u>
	IGCSE – October/November 2008	0445	Da	
			Co.	
	age 2 Mark Scheme Syllabus IGCSE - October/November 2008 0445 Accept any four suitable points - stable in use, easy to move, tools held securely, correct height, matches kept dry, etc. Accept drawings of any two fittings - spring clips, drawers, rubber straps, dawels, our books, feldt' fittings, etc.			norio
	drawings of any two fittings – spring clips, drawers cup hooks, 'slot' fittings, etc.	, rubber straps,	2 × 2	[4]
if fewer.		num marks. Pro rata	3	
simple o	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				
and det				
simplist rather n	uitability mplistic designs showing outlines only ther more detail, sensible solutions that could work ccurate solutions, good fitness for purpose, detailed construction		0–2 3–4 5–6	[12]
	ion of each of the ideas. At least 3 evaluations up to an and justification. (1 + 1)	to 2 marks each.	0–6 2	[8]
(e) Quality	of drawing			
poor lin	e quality, proportions, little detail le work, use of colour, proportions, some detail		1 2–3	
	indard throughout with a range of techniques that s	how clearly all	4	
	sions 2 or 3 overall dimensions only – 1 additional 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 annotation			
most co				
all cons	all constructional detail will be clear with good annotation and additional detail		3–4	140
drawing	is as necessary		5–6	[12]
• •	e specific materials stated. At least two riate reasons for choice. At least two		2 2	[4]
			_	L ' J
(0)	e method stated. I description of process, including: processes		1 3	
and too	· · · • ·		2	[6]

Paç	je 3	Mark Scheme	Syllabus	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	er
		IGCSE – October/November 2008	0445	Da	
(a)		any four suitable points – colourful, number 5, mover appeals to young child, does not frighten, etc.	nent when	n BabaCa 1×4	mbilds
(b)	-	drawings of any two card friendly mechanisms – carr rubber bands, discs, etc.	ıs, levers,	2 × 2	[4]
(c)	Any suita rata if fev Commu		ım marks. Pro		
	simple di clear dra	rawings displaying a low standard or limited range o awings displaying a good standard and a range of teo	•	0–2	
	-	/colour/annotation, etc. ality drawings using a wide range of techniques with a ail	clear annotation	3–4 5–6	
	Suitabili simplistic	ity c designs showing outlines only		0–2	
		ore detail, sensible solutions that could work solutions, good fitness for purpose, detailed constru	uction	3–4 5–6	[12]
(d)		on of each of the ideas. At least 3 evaluations up to n and justification. (1 + 1)	2 marks each.	0–6 2	[8]
(e)	-	of drawing e quality, proportions, little detail		1	
	good line	e work, use of colour, proportions, some detail ndard throughout with a range of techniques that shc	w clearly all	1 2–3	
	detail Dimensi	ions 2 or 3 overall dimensions only – 1 additional detail dimensions – 2		4 2	
	a simplis	iction details stic approach showing little or no detail of constructio		0–2	
	annotatio	nstructional detail may be obvious from overall views on ructional detail will be clear with good annotation and		3–4	
		awings as necessary		5–6	[12]
(f)	•	suitable methods given – coloured film, coloured ca printed colour, etc.	rd, lay on	2 × 2	[4]
(g)		method stated.		1	
	and tool	description of process, including: processes s .		3 2	[6]

Page 4		Mark Scheme	Syllabus	S.	er
		IGCSE – October/November 2008	0445	Da	
(a)		any four suitable points – attracts attention, easy t injury to users, easy to empty, etc.	o clean, stable in	Papace 1 × 4	mbride
(b)		any two suitable methods – light sensor, pressure ovement, flap, etc.	pad, trap door,	2 × 2	[4]
(c)	rata if fe	able ideas. At least three different ideas for maxi wer. Inication	mum marks. Pro		
	simple o clear dra	frawings displaying a low standard or limited range awings displaying a good standard and a range of	-	0–2	
	•	/colour/annotation, etc. ality drawings using a wide range of techniques wi ail	th clear annotation	3–4 5–6	
	Suitabi			0-2	
	rather m	nore detail, sensible solutions that could work e solutions, good fitness for purpose, detailed cons	struction	3–4 5–6	[12]
(d)		on of each of the ideas. At least 3 evaluations up n and justification. (1 + 1)	to 2 marks each	0–6 2	[8]
(e)	-	of drawing e quality, proportions, little detail		1	
	good lin high sta	e work, use of colour, proportions, some detail ndard throughout with a range of techniques that s	show clearly all	2–3	
	detail Dimens	ions 2 or 3 overall dimensions only – 1 additional detail dimensions – 2		4 2	
		uction details stic approach showing little or no detail of construct	ction to be used	2 0–2	
	annotati	nstructional detail may be obvious from overall vie on tructional detail will be clear with good annotation a		3–4	
		awings as necessary		5–6	[12]
(f)		e specific materials stated. At least two iate reasons for choice. At least two		2 2	[4]
					ſ.1
(g)	Detailed	e method stated. I description of process, including: processes		1 3 2	[6]
	and too	13.		2	[6]