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UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the October/November 2009 question paper for the guidance of teachers

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, 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.

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

CIE is publishing the mark schemes for the October/November 2009 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

			1	The same	
Page 2		Mark Scheme: Teachers' version	Syllabus	· Ag	er
		IGCSE – October/November 2009	0445	20	1
(a)	Accept any four suitable points – stable in use, easy to move, easy access, qualified safety, attract attention, etc. (no repeats of question)			MANN, PARA (1×4)	ambri
(b)	Accept drawings of any two suitable joints – dovetail, finger, butt, lap, screwed, nailed, hinges, etc.			(2×2)	[4]
(c)	rata if for Communication Simple technique Clear destanding High quannotate Suitabi Simplist Rather	unication drawings displaying a low standard or limited ues rawings displaying a good standard and a range of tell/colour/annotation etc. uality drawings using a wide range of techniques ion and detail	range of chniques – with clear	(0-2) (3-4) (5-6) (0-2) (3-4) (5-6)	[12]
(d)	each	ion of each of the ideas. At least 3 evaluations up to and justification (1 + 1)	to 2 marks	(0–6) (2)	[8]
(e)	Poor lin Good lin High sta all detai Dimens Constru	sions 2 or 3 overall dimensions only – 1 Additional detail dimensions – 2 uction details	·	(1) (2–3) (4) (2)	
	used Most co some a All cons	listic approach showing little or no detail of constructional detail may be obvious from overall viennotation structional detail will be clear with good annotation and rawings as necessary	ws or with	(0–2) (3–4) (5–6)	[12]
(f)		e specific materials stated riate reasons for choice		(2) (2)	[4]
(g)		e method stated etailed description of method, including: ses		(1) (3) (2)	[6]

1

[Total: 50]

		Mark Scheme: Teachers' version Syllabus			
Page 3		Mark Scheme: Teachers' version		. 2	er
		IGCSE – October/November 2009	0445	200	
(a)	to carry	any four suitable points – stable when opened, lightw , attract attention, colourful, made from renewable meats of question)	•	(1 × 4)	ambri
(b)	•	drawings of any two suitable joining methods its, clips, elastic, hinges, etc.	- 'velcro',	(2 × 2)	[4]
(c)	rata if for Communication Simple technique Clear deshading High quannotate Suitabi Simplist Rather	unication drawings displaying a low standard or limited ues rawings displaying a good standard and a range of te y/colour/annotation etc. uality drawings using a wide range of techniques ion and detail	range of echniques – with clear	(0-2) (3-4) (5-6) (0-2) (3-4) (5-6)	[12]
(d)	each	ion of each of the ideas. At least 3 evaluations up on and justification (1 + 1)	to 2 marks	(0–6) (2)	[8]
(e)	Poor lin Good lin High sta all detai Dimens Constru A simplused Most co some a All cons		ction to be	(1) (2-3) (4) (2) (0-2) (3-4) (5-6)	[12]
(f)		e specific materials stated riate reasons for choice		(2) (2)	[4]
(g)		e method stated etailed description of method, including: ses		(1) (3) (2)	[6]

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[Total: 50]

Page 4		Mark Scheme: Teachers' version	Syllabus	2.0	or
1 age 4		IGCSE – October/November 2009	0445	80	
(a)	empty,	any four suitable points – lightweight, easy to clear insects/animals cannot escape, cannot damage insect of question)	an, easy to	(1 × 4)	ambrid
(b)	Accept any two remote control systems – radio, infra red, bowden cable, linkages, string, etc.		(2 × 2)	[4]	
(c)	rata if fe Common Simple techniq Clear d shading High quannotat Suitabi Simplis Rather	unication drawings displaying a low standard or limited ues rawings displaying a good standard and a range of teg/colour/annotation etc. uality drawings using a wide range of techniques ion and detail	range of chniques – with clear	(0-2) (3-4) (5-6) (0-2) (3-4) (5-6)	[12]
(d)	each	ion of each of the ideas. At least 3 evaluations up on and justification (1 + 1)	to 2 marks	(0–6) (2)	[8]
(e)	Poor lin Good lin High st all deta Dimens Constr A simp used Most co some a All cons	r of drawing le quality, proportions, little detail le quality, proportions, little detail le quality, proportions, some detail le andard throughout with a range of techniques that slil le sions 2 or 3 overall dimensions only – 1 Additional detail dimensions – 2 lection details listic approach showing little or no detail of constructional detail may be obvious from overall vie nnotation letructional detail will be clear with good annotation and rawings as necessary	ction to be	(1) (2–3) (4) (2) (0–2) (3–4) (5–6)	[12]
(f)		e specific materials stated riate reasons for choice		(2) (2)	[4]
(g)		e method stated etailed description of method, including: ses		(1) (3) (2)	[6]

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[Total: 50]