CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

## MARK SCHEME for the May/June 2013 series

## 0445 DESIGN AND TECHNOLOGY

0445/21

Paper 2 (Graphic Products), maximum raw mark 50

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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 should be read in conjunction with the question paper and the Principal Examiner Report for Teachers.

Cambridge will not enter into discussions about these mark schemes.

Cambridge is publishing the mark schemes for the May/June 2013 series for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level components and some Ordinary Level components.



	Page 2		Mark Scheme	Syllabus	Paper
			IGCSE – May/June 2013	0445	21
A1	(a)	$60^{\circ}$ extends $60^{\circ}$ extends $60^{\circ} \times 80^{\circ}$	tline nal shape evident (1) ension 80 long lower LHS (1) ension 80 long top RHS (1) ) top LHS (1) necting line (1)		[5]
	(b)	<i>Fruit</i> circle Ø8	80 (1)		[1]
	( <b>c)</b>	<i>Triangle</i> Equilater 20 side (			[2]
	( <b>d</b> )	Sandwic 45° line ( Side heig			[2] [Total: 10]
A2	(a)	Lettering Accuracy S (1 W (1 Spacing Height (1	y and proportion of: ) 1) (1)		[4]
	(b)	-	<i>ard outline</i> or angle/vertical extended (1)		[1]
					[Total: 5]
Α3	(a)	Ghost bo Ghost bo Lid outer Lid outer Radius o	<i>c view</i> ngle to size (1) ox evident (1) ox projected to form front (1) r drawn overhanging (1) r drawn 90 wide (1) corners (1) drawn (1)		
			drawn 120 × 50 (1)		[8]
	(b)	Tone			
	x = J		to show transparency (0 – 2pr) (2)		[2]
					[Total: 10]

	Page 3		Mark Scheme	Syllabus	Paper
			IGCSE – May/June 2013	0445	21
B4	(a)	Finger slo Finger slo Finger slo	(1)		[7]
	(b)	Thicknes Divider e Finger sl	equare outline (1) s of card 6mm to scale (1) vident (1) ot length evident (1) ot drawn central (1)		[5]
	(c)	Finger sl	ation projected (1) ot projected from plan (1) ot Height projected from FE (1) s evident on R/H of slot (1)		[4]
	(d)	Ø 66 drav Ø 54 drav Ø 54 con Can cent Can proje Can proje Overall h	n in position <b>D</b> (1) wn (1) centric (1) rred on box diagonal (1) ected to FE & visible (1) ected to EE & visible (1) eight correct (50 ± 3) (1)		101
		12mm sr	noulder to can visible (60°) (1)		[9]

[Total: 25]

	Page 4			Mark Scheme	Syllabus	Paper
				IGCSE – May/June 2013	0445	21
В5	(a)	<i>Development</i> 5 panels evident (1) Centre panel 150 wide (1)		evident (1)		[2]
		Base 40 deep (1) Two glue flaps to base $2 \times 1$ (2)		,		[3]
		Back 120 tall (1) Two sides 40 wide $2 \times 1$ (2)				
		Two glue flaps to sides $2 \times 1$ (2)				[5]
		Front 80 tall (1) Ellipse shape evident (1) Minor axis 80 (1) Major axis 120 (1) Construction evident (1)		hape evident (1) is 80 (1) is 120 (1) ction evident (1)		
			file to candidate construction (1) wide shoulder to front (1)			[7]
		All glue tabs 10 wide (1) All glue tabs with angled ends (1)				[2]
						[Total: 19]
	(b)	(i)		agon outline ine completed 2 x 1 (2)		[2]
		(ii)	Han	<i>ibol</i> kin evident (1) d (or equivalent) evident (1) ement arrow(s) (1)		
				bol in proportion to outline (1)		[4]
						[Total: 6]