

UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

## MARK SCHEME for the May/June 2012 question paper

## for the guidance of teachers

## 0445 DESIGN AND TECHNOLOGY

0445/21 Paper 2 (Graphic Products), 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 May/June 2012 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
			IGCSE – May/June 2012	0445	21
A1	(a)	Centre d Arcs dra	ctional square 80 A/F (2) etermined (1)		[5]
	(b)		<i>cle</i> cle to length of side (1)		[1]
	(c)	-	s ngles equilateral (2)		[2]
					[Total: 8]
A2	(a)	Lettering Accuracy K (1) Y (1) Spacing Height (1	y and proportion of: (1)		[4]
	(b)	Quadrila vertical ( horizonta Repeat a	al (1)		[3] [Total: 7]
Α3	<ul> <li>B Isometric rectangular base 50 x 80 (2)</li> <li>Top rectangle height 20 (1)</li> <li>Top rectangle in line with base (1)</li> <li>O/H to top of top rectangle 160 (1)</li> <li>Taper sides x2 (2)</li> <li>Semi-circle plots (1)</li> <li>Semi-circle constructed curve (1)</li> <li>Repeat curve to candidate thickness (1)</li> </ul>			[10] [Total: 10]	

	Page 3		Mark Scheme: Teachers' version	Syllabus	Paper
			IGCSE – May/June 2012	0445	21
B4	(a)	2 side fla Radius c Side flap Tuck-in f	es shown in correct position (7)		[12]
	(b)		rical (1) f (1)		[8]
	(c)		led (1) ct face (1) t orientation (1)		[3]
	(d)		slots or similar 0-2 of arrow tab/slot =0) (2)		[2] [Total: 25]

	Page 4		Mark Scheme: Teachers' version	Syllabus	Paper
			IGCSE – May/June 2012	0445	21
B5	(a)	3 x corre 4/5 corre Labels o	)		[7]
	(b)	Rising ch	t easons correctly referenced (1) nart (winter to summer) (1) eximate scale (1)		[3]
	(c)	3D (1) <i>Winter</i> Three blo Correct v	mensional bar chart ocks in 3D (2D = 0 marks) (up to 3 marks) value to scale (3x1 up to 3 marks) dded and correct to value (1)		
		Correct v	ocks in 3D (2D = 0 marks) (up to 3 marks) value to scale (3x1 up to 3 marks) dded <b>and</b> correct to value (1)		[15]
					[Total: 25]