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CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the May/June 2013 series

0625 PHYSICS

0625/51

Paper 5 (Practical), maximum raw mark 40

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	0625	51	
1		h, w and d recorded all given to same correct unit				
	(b) a	r correct	to ± 1(°)		[1]	
	at least of additional method		corded (< 45°) one more θ all θ recorded for finding average θ correct verage given to nearest 0.5° or 1° with unit		[1] [1] [1] [1]	
	` '		tatement for results (expect Yes) vithin (or beyond) experimental accuracy		[1] [1] [Total: 10]	
2	(a) sensib		value for $ heta_{R}$		[1]	
	s c te	emperat vidence	or mm values 0, 30, 60, 90, 120, 150, 180 cures decreasing of temperatures to at least 1°C realistic and relating to temperatures		[1] [1] [1] [1]	
	(e) (i) does	s not go through the origin		[1]	
	(i	i) <i>d</i> no	t measured from 0°C mark o.w.t.t.e.		[1]	
	(ii	•	at least 0–100 on scale ion by appropriate number from scale		[1] [1]	
					[Total: 10]	

	Page 3		Mark Scheme	Syllabus	Paper			
			IGCSE – May/June 2013	0625	51			
3	(a)	(a) table: all V to at least 1 d.p. and < 3 V all I to at least 2 d.p. and < 1 A R values correct						
	(b)	suitable s	rectly labelled scales correct to ½ small square e judgement AND thin, continuous line		[1] [1] [1]			
	(c)	using at	method shown least half of line easured $\it I$ values to within 10% of each other		[1] [1] [1] [Total: 10]			
4	nori inci- first refle con	trace: mal drawr dent ray a P ₃ P ₄ at le ected rays struction lines core a and b o		[1] [1] [1] [1] [1] [1]				
	(m)	statemer idea of w		[1] [1]				
	(n)	align pin	from: sure pins are vertical s by viewing bases of pins ar apart as possible (>5 cm)		[1]			
			1		[Total: 10]			