## 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.



	Pag	e 2	Mark Scheme	Syllabus	Paper		
			IGCSE – May/June 2013	0625	51		
1	• •		<i>d</i> recorded to same correct unit		[1] [1]		
	<b>(b)</b> d	a correct	$t to \pm 1(^{\circ})$		[1]		
	a a r	first $\theta$ recorded (< 45°) at least one more $\theta$ additional $\theta$ recorded method for finding average $\theta$ correct correct average given to nearest 0.5° or 1° with unit					
			tatement for results (expect Yes) vithin (or beyond) experimental accuracy		[1] [1] [Total: 10]		
2	(a) s	sensible	value for $ heta_{R}$		[1]		
	s c t	table: s, °C, cm or mm correct <i>t</i> values 0, 30, 60, 90, 120, 150, 180 temperatures decreasing evidence of temperatures to at least 1 °C <i>d</i> values realistic and relating to temperatures					
	(e) (	(i) does	s not go through the origin		[1]		
	(i	<b>ii)</b> <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	<b>(a)</b> ta al al <i>R</i>		[1] [1] [1]			
	<ul> <li>(b) graph: axes correctly labelled suitable scales all plots correct to ½ small square good line judgement AND thin, continuous line</li> </ul>					
	(c) tri us G	[1] [1] [1] [Total: 10]				
4	incider first Pa reflect constr (I) lir a	al drawn nt ray a $_{3}P_{4}$ at lead red rays ruction l nes corr and b c	n at centre of MR ht 30° (± 1°) east 5 cm apart s in correct positions and neat lines to X correct rectly drawn correct measurements to ±0.1 cm		[1] [1] [1] [1] [1] [1]	
			nt matches results (expect Yes) vithin (or beyond) experimental accuracy		[1] [1]	
	m al	lign pins	from: sure pins are vertical s by viewing bases of pins ar apart as possible (>5 cm)		[1]	
	Ы					
					[Total: 10]	