## **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	correct	to ± 1(°)		[1]		
	a a m	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	<b>(a)</b> s	ensible	value for $ heta_{R}$		[1]		
	s c te	orrect <i>t</i> emperat vidence	or mm values 0, 30, 60, 90, 120, 150, 180 tures decreasing of temperatures to at least 1°C realistic and relating to temperatures		[1] [1] [1] [1]		
	(e) (i	i) does	s not go through the origin		[1]		
	(i	<b>i)</b> <i>d</i> no	t measured from 0°C mark o.w.t.t.e.		[1]		
	(iii	,	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)	table: all <i>V</i> to a all <i>I</i> to at <i>R</i> values		[1] [1] [1]	
	(b)	suitable s	rectly labelled scales correct to ½ small square e judgement AND thin, continuous line		[1] [1] [1] [1]
	(c)	using at	method shown least half of line easured $\emph{I}$ values to within 10% of each other		[1] [1] [1] <b>[Total: 10]</b>
4	nori inci first refle	trace: mal drawr dent ray a P <sub>3</sub> P <sub>4</sub> at le ected rays struction l lines core a and b o		[1] [1] [1] [1] [1] [1]	
	(m)		nt matches results (expect Yes) vithin (or beyond) experimental accuracy		[1] [1]
	(n)	align pins	from: sure pins are vertical s by viewing bases of pins ar apart as possible (>5 cm)		[1]
		-	, ,		[Total: 10]