## MARK SCHEME for the May/June 2014 series

## 0625 PHYSICS

0625/52

Paper 5 (Practical Test), 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 2014 series for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level components and some Ordinary Level components.



Page 2		ge 2	Mark Scheme Syllabus		Paper	
			IGCSE – May/June 2014	0625	52	
1	(a)	.,.,	and <i>x</i> recorded in cm, with <i>l</i> between 15 and 18 cm nd <i>x</i> between 13 and 17 cm		[1]	
		(iii) corre	ect calculation of <i>y</i>		[1]	
	(b)	evidence	e of at least three turns (accept from a sketch)		[1]	
		working/	method shown		[1]	
		<i>c</i> betwee	en 2 and 3 cm and to nearest 0.1 cm		[1]	
	(c)	<ul><li>thick</li><li>thick</li><li>gaps</li></ul>	from: aching of string aness of string aness of mark as between turns ling of turns at an angle		[1]	
	(d)	correct c	ding errors)	[1]		
		cm <sup>3</sup>				
	(e)	suitable answer < 1 (cm <sup>3</sup> ) (expect estimate to nearest $0.1 \text{ cm}^3$ )				
		sensible reasoning/working/method which takes account of sharpened sha and length				
					[Total: 10]	
2	(a)	correct t	values 30, 60, 90, 120, 150		[1]	
		temperat	tures decreasing (accept 1 pair of identical readings)		[1]	
	(b)	axes correctly labelled with quantity and unit		[1]		
		suitable	scales on both axes, occupying more than half the grid		[1]	
		all plots correct to 1/2 small square				
		good line judgement				
		thin, con	tinuous line and neat plots (penalise large 'blobs')		[1]	
	(c)	(i) state	ement to match results		[1]	
		(ii) state	ement to match graph line		[1]	

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[1]
Total: 10]
[1]
[1]
[1]
[1]
[1]
[1]
[1]
[1]
[1]
[1] Total: 10]
[1]
[1]
[1]
[1]
[1]
[1]

Page 4	Mark Scheme	Syllabus	Paper
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(f) any • • • •	two from: use of darkened room/brighter lamp/no other lights mark position of centre of lens on holder place metre rule on bench/clamp in position ensure object and (centre of) lens are same height (fro repeat (and average) move the lens slowly/to and fro lens, object and screen all vertical/perpendicular to be		[max 2]
<b>(g)</b> imag	ge drawn inverted		[1]
(h) dista	ance between object and screen / <i>D</i> / change position of	of screen	[1] [Total: 10]