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## **CAMBRIDGE INTERNATIONAL EXAMINATIONS**

**International General Certificate of Secondary Education** 

## MARK SCHEME for the October/November 2012 series

## 0625 PHYSICS

0625/52

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 October/November 2012 series for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level components and some Ordinary Level components.

	Page 2		Mark Scheme	Syllabus	2.0
		9 -	IGCSE – October/November 2012	0625	Star
1	(a)	l value 4	5 – 55 cm / 450 – 550 mm unit required		W. Papa Cambridge
	(b)	Move rul	ducial mark/blocks/protractor/set square ler closer to bob/lower bob ore the mark from a well-drawn diagram)		[1]
	(c)	t values a	llues (for 10, $not$ 9 swings) ( $t_{10}$ = 14.2 s) all similar (± 0.2 s)		[1] [1] [1] [1]
	(d)	•	ion: little or no effect (owtte) allow ecf from $\mathbf{1(c)}$ tion: $T$ values very similar (owtte)		[1] [1]
	(e)	Gives a r T is too s	from: s human reaction error more accurate value <u>of T</u> small/oscillations are too quick n average value (of T)		[1] <b>[Total: 10]</b>
2	(a)	Sensible	e room temperature value		[1]
	(b)	$\theta_1 < \theta_0$ ar	hot water temperature $\theta_0$ (between 60 and 100) and temperatures in °C at least once, not contradicted correct calculations		[1] [1] [1]
	(c)	$\theta_2 < \theta_1, \ \theta_0 < \theta_B$	$\theta_3 < \theta_2$		[1] [1]
	(d)	Ratios ca Ratios cl	alculated lose (owtte) or ratios too different (owtte)		[1] [1]
	(e)	Initial (wa Amount of Time into Mass/vol	emperature/ draughts/humidity/air conditioning ater) temperature (cold or hot) of stirring		[2]

[Total: 10]

Page 3	Mark Scheme	Syllabus	· S	V.
	IGCSE – October/November 2012	0625	200	

			22	1
<u> </u>	age 3	Mark Scheme IGCSE – October/November 2012	Syllabus 0625	
(a)	V <sub>S</sub> to at I	least 2 decimal points and ≤ 1A least 1 decimal point and 1 to 2.5 V e correct	Syllabus 0625  O625  O625  [1]	Ge.Co
(b)	$I_P$ and $I_P$ $I_P$ and $I_R$ $I_R$ $I_R$ $I_R$ $I_R$ with $I_R$	this is a second of the second	[1] [1] [1] [1]	
(c)		correct symbol for variable resistor (not potential e resistor in a correct position	al divider symbol) [1]	
			[Total: 10]	
(a)		Table: Five <i>v</i> values present Correct <i>d</i> values	[1] [1]	
(c)	All plots Good lin	orrectly labelled and scales suitable scorrect to ½ small square ne judgement ontinuous line	[1] [1] [1]	
(d)		e method used and shown t least half of line	[1] [1]	-
(e)		16 cm (accept numbers rounding to 14/16) ignificant figures and unit	[1] [1]	

[Total: 10]