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## **UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS**

**International General Certificate of Secondary Education** 

## MARK SCHEME for the October/November 2010 question paper for the guidance of teachers

## 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 must be read in conjunction with the question papers and the report on the examination.

• CIE will not enter into discussions or correspondence in connection with these mark schemes.

CIE is publishing the mark schemes for the October/November 2010 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

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	Page 2		Mark Scheme: Teachers' version	Syllabus	Syllabus	
		9	IGCSE – October/November 2010	0625	As-	
1	(a)	<ul> <li>a) a and b present and in cm</li> <li>a + b &lt; 50 cm</li> <li>m correct calculation</li> </ul>		N. Papa Cambridge		
	(b)	More that Sensible V calculated	two values given for $w$ or $t$ an two values given for $w$ and $t$ avalues for $w$ and $t$ ation correct method to 2 or 3 significant figures and unit 5–1.5		[1] [1] [1] [1] [1]	
	(c)	Centre o	of mass at 50 cm mark/midpoint/middle (wtte)		[1] [Total: 10]	
2	(a)	$ heta_{\!\scriptscriptstyle  extsf{r}}$ sensib	ple value		[1]	
	(b)-	Tabl Tabl	s, $\theta$ in °C rect $t$ values le 2.1 temperatures decreasing le 2.2 temperatures decreasing dence of temperatures to 1°C		[1] [1] [1] [1]	
	(e)	Justified	ent matches readings by reference to readings ison given of changes in temperature with numbers		[1] [1]	
	(f)	Any two Same (si Constant Carry ou		e		
			lume of water/location of thermometer/beaker/'tempera sponses, –1 for each <u>additional</u> incorrect (ignore 'neuti		[2]	
					[Total: 10]	

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[Total: 10]

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**3** (a)  $V_0$  sensible value 1.0–2.5

	(b)	Table: $R \text{ in } \Omega, V \text{ in } V$ All $V \text{ to at least 1 d.p.}$ $V \text{ values decreasing}$	[1] [1] [1]
	(c)	Graph: axes labelled and scales suitable (origin included) All plots correct to nearest ½ small square Well judged best fit line Thin line	[1] [1] [1] [1]
	(d)	Line extended suitably to <i>y</i> axis Estimate correct to ½ small square	[1] [1] [Total: 10]
4	(b)	d = 2.8-3.2  cm	[1]
	(c)-	-(e) correct × values 2.0, 4.0, 6.0, 8.0, 10.0 s values present and increasing $s^2$ values correct $s^2$ values all to same number of significant figures (2, 3 or 4) All above in correct units Final $s^2$ value 2× first value (± 10%)	[1] [1] [1] [1] [1]
	(f)	Correct statement matching results	[1]
	(g)	Justified referring to specified results (either exact or within limits of experimental accuracy, or wtte)	[1]
	(h)	Any one of: Use of darkened room How to avoid parallax when taking readings Use of marks paper on screen to aid measurements Card and screen vertical Repeats	[1]