

## Wany, papa Cambridge, com MARK SCHEME for the May/June 2012 guestion 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.

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

Cambridge is publishing the mark schemes for the May/June 2012 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

Paç	ge 2	Mark Scheme: Teachers' version Syllabus	2
		IGCSE – May/June 2012 0625	Day .
(a)	Table:		Anacannuniuge [1]
• •	cm, N		Dri
		<i>d</i> values 70.0, 60.0, 50.0, 40.0, 30.0, 20.0, 10.0	1.90
	F values	all less than 4N	
		decreasing	[1]
	F values	all to at least 0.2N	[1]
(b)	(i) <i>d</i> ag	ainst F (or F against d)	[1]
(		ight line	[1]
	Thro	bugh origin	[1]
(2)	Mould of	harra faraamatar raading/ahanga maga an rula/diaturh halanga/utta	[4]
(C)	Would Ci	hange forcemeter reading/change mass on rule/disturb balance/wtte	[1]
(d)	Check d <sup>i</sup>	istance from bench is the same at two points/	
		by eye with windowsill (or suitable horizontal reference)/	
		use of set-square	[1]
			[Total: 10]
			נוטנמו. וען
(a)	Sensible	room temperature value in °C	[1]
ι,			
		imes 0, 30, 60, 90, 120, 150	[1]
,	Tempera	atures falling	[1]
$(\cdot)$	Orresh.		
	Graph:	rectly labelled	[1]
	Suitable		[1] [1]
		correct to ½ small square	['] [1]
	•	e judgement	[1]
		ntinuous line	[1]
< 1\	- 6		
• •	Two fron		
	Room te Draughts	mperature	
	-	s Iter temperature	[2]
			[Total: 10]

Page 3	Mark Scheme: Teachers' version Syllabus	· ~ ~ ~
	IGCSE – May/June 2012 0625	Non I
	east 1 d.p. and < 3V and $I_1$ to at least 2 d.p. and < 2A $R_P$ values correct	The strapape
<b>(b)</b> $V_2$ and $I_2$ $R_s = 4 R_1$	$I_2$ present with $I_2 < I_1$ $I_P \pm 10\%$	[1 [1]
	statement (from candidate's work, expect Yes) with g justification (idea of within or beyond experimental accuracy)	[1
	uit: ect symbols for ammeter, voltmeter and lamp ect series circuit	[1 [1
(ii) V₃a	nd $I_3$ present with $L_8$ to 2 or 3 significant figures	[1
<b>(e)</b> Units V,	A and Ω	[1
(f) Filament	glows/lamp gets hot	[1
		[Total: 10
	° in correct position	[1
Angle of incid All lines pres	dence 20° and N at 4 cm ent and peat	[1
•	nt ray correct direction	[1 [1
	stance > 5.0 cm	[1
(c) <i>a</i> value o	correct to ± 1 mm	[1
(i) b value o	correct to ± 1 mm	[1
	correct (ecf allowed) significant figures and no unit	[1 [1
(k) a and b	present, both <i>n</i> values 1.4–1.6	[1