



0625 PHYSICS

0625/52

Paper 5 (Practical), maximum raw mark 40

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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		ge 2	Mark Scheme	Syllabus	Paper
		-	IGCSE – May/June 2013	0625	52
1	(a)	table: correct a x and y v all x and	/ values 5.(0), 10.(0) /alues present , first (<i>x</i> + <i>y</i>) < 46, second < 41 <i>y</i> values <u>to nearest mm</u>		[1] [1] [1]
	(b)	(i) <i>M</i> ∨a	alues both correct – penalise incorrect rounding, 3 o	or 4 sig. figs. only	[1]
		(ii) g/g	rams seen at least once		[1]
		(iii) corre (igne	ect average ore sig. figs., but rounding must be correct)		[1]
	(c)	<i>M</i> values	s same to within 5g		[1]
	(d) (e)	any two centre of mass X i difficulty /pan has one from	from: f mass of rule not at 50.0 cm / non-uniform rule not uniform / of varying density in obtaining balance (o.w.t.t.e.) / slips on pivot / n s mass	nass X not exacti	ly 100g [2]
		mark line use posi	e through centre of the mass tion of edges of mass on rule		[1] [Total: 10]
2	(a)	sensible \	value of $\theta_{\rm C}$ (< 40 (°C))		[1]
	(b)	decreasi evidence	ng $θ$ values (allow one pair of identical values) e of $θ$ to at least nearest 1°C		[1] [1]
	(c)	$ heta_{H}$ value	sensible (> 60 °C), ignore unit		[1]
	(d)	(i) θ ₁ lo	wer than $ heta_{H}$		[1]
		(ii) θ ₂ lo	ower than θ_1 and correct unit seen once in (a) – (d)		[1]
	(e)	estimate estimate	reasonable fit with readings (must use table readin given using sensible method	gs $\Delta heta$, or use $ heta_1$ c	or θ ₂) [1] [1]

yllabus	Paper		
0625	52		
	[2] [Total: 10]		
	[1]		
	[1]		
	[1]		
	[1] [1]		
	[1]		
	[1]		
	[1]		
	[1] [1]		
	[Total: 10]		
	[
	[1] [1]		
	[1]		
	[1]		
	[1]		
	[1]		
	[1]		
	[1]		
(c) statement matches results and idea of within/beyond limits of			
	[1]		
	[1]		
	[Total: 10]		
	<u>0625</u>		