UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

International General Certificate of Secondary Education

MARK SCHEME for the May/June 2012 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.

• 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.

	Page 2		Mark Scheme: Teachers' version	Syllabus	Paper
			IGCSE – May/June 2012	0625	52
1	(a)	F values F values	d values 70.0, 60.0, 50.0, 40.0, 30.0, 20.0, 10.0 all less than 4 N decreasing all to at least 0.2 N		[1] [1] [1] [1]
	(b)	(i) <i>d</i> ag	ainst <i>F</i> (or <i>F</i> against <i>d</i>)		[1]
			ight line ough origin		[1] [1]
	(c)	Would ch	nange forcemeter reading/change mass on rule/dis	turb balance/wtte	[1]
	(d)	Line up b	stance from bench is the same at two points/ by eye with windowsill (or suitable horizontal reference use of set-square	nce)/	[1] [Total: 10]
2	(a)	Sensible	room temperature value in °C		[1]
	(b)		imes 0, 30, 60, 90, 120, 150 stures falling		[1] [1]
	(c)	Suitable All plots Good line	rectly labelled scales correct to ½ small square e judgement ntinuous line		[1] [1] [1] [1]
	(d)	Draughts	mperature		[2]
					[Total: 10]

	Page 3	Mark Scheme: Teachers' version	Syllabus	Paper
		IGCSE – May/June 2012	0625	52
3	(a) V ₁ to R _P a	[1] [1]		
	(b) V ₂ ar R _S =	[1] [1]		
	(c) Corre	[1]		
	() ()	Circuit: Correct symbols for ammeter, voltmeter and lamp Correct series circuit		[1] [1]
	(ii)	V_3 and I_3 present with L_8 to 2 or 3 significant figures		[1]
	(e) Units		[1]	
	(f) Filan	nent glows/lamp gets hot		[1] [Total: 10]
4	Trace: Normal a Angle of All lines p First eme	[1] [1] [1] [1] [1]		
	(c) a val	lue correct to ± 1 mm		[1]
	(i) <i>b</i> val	lue correct to ± 1 mm		[1]
		lue correct (ecf allowed) or 3 significant figures and no unit		[1] [1]
	(k) <i>a</i> and	d <i>b</i> present, both <i>n</i> values 1.4–1.6		[1]
				[Total: 10]