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

0625/53

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	53
1	(a)	Table: cm, N Correct of F values F values F values		[1] [1] [1] [1]	
	(b)	(i) <i>d</i> ag	painst <i>F</i> (or <i>F</i> against <i>d</i>)		[1]
			ight line ough origin		[1] [1]
	(c)	Would ch	hange forcemeter reading/change mass on rule/dist	urb balance/wtte	[1]
	(d)	Line up b	istance from bench is the same at two points/ by eye with windowsill (or suitable horizontal referen use of set-square	ce)/	[1] [Total: 10]
2	(a)	Sensible	room temperature value in °C		[1]
	(b)		times 0, 30, 60, 90, 120, 150 atures falling		[1] [1]
	(c)	Suitable All plots Good line	rrectly labelled scales correct to ½ small square e judgement ntinuous line		[1] [1] [1] [1]
	(d)	Draughts	mperature s		
		Initial wa	ater temperature		[2]
					[Total: 10]

	Page 3		Mark Scheme: Teachers' version	Syllabus	Paper		
			IGCSE – May/June 2012	0625	53		
3	(a) V ₁	[1] [1]					
	(b) V ₂ R _S	[1] [1]					
	(c) Co ma	l accuracy)	[1]				
	(d) (i)	Corr	euit: rect symbols for ammeter, voltmeter and lamp rect series circuit		[1] [1]		
	(ii)		[1]				
	(e) Ur		[1]				
	(f) Fil	(f) Filament glows/lamp gets hot					
					[Total: 10]		
4	Trace: Norma Angle of All line: First er First P	[1] [1] [1] [1] [1]					
	(c) a		[1]				
	(i) b	value c	correct to ± 1 mm		[1]		
			correct (ecf allowed) significant figures and no unit		[1] [1]		
	(k) a a	and <i>b</i> p	present, both <i>n</i> values 1.4–1.6		[1]		
					[Total: 10]		