## UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

**International General Certificate of Secondary Education** 

## MARK SCHEME for the May/June 2011 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 2011 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 2011	0625	52
1.	(a),	F column	masses 100, 200, 300, 400, 500 n complete, all values < 10N and to at least 1d.p. s increasing		[1] [1] [1]
	(d)				[1] [1] [1] [1]
	(e)		F to ½ small square with unit N ow obtained		[1] [1]
	(f)	Weight/n	mass/force of rule owtte		[1] [Total: 10]
2.	(a)	$ heta_{R}$ sensit	ble value		[1]
	(c)	Correct to Uninsulated Insulated	oth θ in °C t values 30, 60, 90, 120, 150, 180 ated tube temperatures decreasing d tube temperatures decreasing rate of fall in insulated tube		[1] [1] [1] [1]
	(f)		ent matches readings by reference to temperature <u>differences</u> and <u>time</u>		[1] [1]
	(g)	temperate tube size thickness volume/a thickness	from: emperature/starting temperature/temperature of hot ature/ correct named reference to environmental condit e/same test-tube as of glass amount/level of water as of cotton wool of immersion) of thermometer		ant) room
		(rate of)	•		[2]
					[Total: 10]

	Page 3		wark Scheme: Teachers' Version	Syllabus	Paper		
			IGCSE – May/June 2011	0625	52		
3.	G. (a) mm or cm or m, A, V, $\Omega$ Correct lengths 50cm, 75cm, 100cm I values all to at least 2 d.p. (<1A) V values all to at least 1 d.p. (<3V) R values correct R consistently to 1 or 2 d.p. $R_{AD} = 2R_{AB}$ to within 10%						
	(b)	ling idea of 'with	[1] in limits of [1]				
	(c)	One of: Switch off between readings Use of low current (owtte)  [Total:					
4.	All I P <sub>3</sub> P	mal corre	ent and neat e ≥ 5.0cm		[1] [1] [1] [1]		
	(h)	a correct	to 2mm		[1]		
	(j)	b correct	to 2mm		[1]		
	(k)	n correct n 1.4 – 1	value, 2 or 3 significant figures, no unit .6		[1] [1]		
		Pin: pins	not vertical/not straight/pins too close/thickness of I	ines/size of holes	[1]		
		Ray Box	: thickness of ray		[1]		
					[Total: 10]		

Mark Scheme: Teachers' version

Syllabus

**Paper** 

Page 3