UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS GCE Ordinary Level

MARK SCHEME for the May/June 2010 question paper for the guidance of teachers

5054 PHYSICS

5054/41

Paper 4 (Alternative to Practical), maximum raw mark 30

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.

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

CIE is publishing the mark schemes for the May/June 2010 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.

Page 2				Mark Scheme: Teachers' version GCE O LEVEL – May/June 2010							Syllabus 5054			Paper 41								
1	(2)	152	203))!	52			O L	_ v _		iviay	7700	une 2	010				3034			 31	[1]
1	(a)	132	202	2 2:)2	30	3													D)	[1]
	(b)	axes										уа	nd ur	nit						В	31	
		y: $2 \text{ cm} \equiv 50 \text{ g}$ x: $2 \text{ cm} \equiv 50 \text{ s}$ or 80 s scales: more than $\frac{1}{2}$ page, sensible									В	31										
		points plotted accurately									31											
		best fit straight line neatly drawn										В	31	[4]								
	(c)	directly proportional / doubling x doubles y									В	31	[1]									
	(d)	0.84	± 0.0	02	ig	nor	e un	it												В	31	[1]
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	Pa	ge 3		Mark Scheme: Teachers' version	Syllabus	Paper				
				GCE O LEVEL – May/June 2010 5054						
3	(a)	(i)	Α			MO				
		(ii)	22Ω	cao		A1	[1]			
	(b)	(i)	M0 A1 A1	[2]						
		(ii)	B1	[1]						
			[To	tal: 4]						
4	(a)	(i)	rod o	drawn alongside right hand side of A		B1	[1]			
		(ii)		of rod A moves away / rotates be shown on diagram		B1	[1]			
	(b)	to b	e sur	e we get same sign charge / effect on each rod / ensu	re rods repel	B1	[1]			
	(c)	chai	rge is	s dissipated / leaks away into air / bench / lost / decrea	ses	B1	[1]			