

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

0653 COMBINED SCIENCE

0653/51

Paper 5 (Practical Test), 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.

• 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	2	Mark Scheme: Teachers' version	Syllabus	Paper
			IGCSE – May/June 2011	0653	51
1 (a) 2 readings for inhaled air ;					[1]
	(b) 2 readings for exhaled air and average of 2 readings less than average readings in (a);			of 2 [1]	
	(c) (i)	ave	erage for inhaled air ; erage for exhaled air ; aled air = higher reading than exhaled air ;		[3]
	(ii)	mc	ne for atmospheric/inhaled air longer ; ore oxygen ; verse argument true) (ignore references to carbon o	dioxide)	[2]
	(iii)	CC	haled – cloudy and atmospheric/inhaled – clear ; D_2 linked to cloudiness or to B ; spiration/breathe out CO ₂ /no CO ₂ in A ;		[3]
					[Total: 10]
2	(a) me	asure	ment clearly in mm ;		[1]
	force co increase		results ; rect (2.0, 3.0, 4.0, 5.0) ; in length greater as goes down ; in length is correct ;		[4]
		table	scale ; correct for at least 4 points ;		[2]
	(d) yes	s, with	suitable explanation ;		[1]
	(e) suit	table	straight line or curve drawn related to answer in (d)	,	[1]
	(f) rea	d corı	rectly ;		[1]
					[Total: 10]

Page 3	Mark Scheme: Teachers' version	Syllabus	Paper	
	IGCSE – May/June 2011	0653	51	
3 (a) violet/lila	a) violet/lilac/purple ;			
(b) (i) dis	solves in cold water ;		[1]	
	wn ppt./orange ppt ; nus red to blue ;		[2]	
(iii) red	brown ppt./orange ppt ;		[1]	
(c) sulfate ; added ba	arium chloride ;		[2]	
sulfate/S	Fe ³⁺ /Fe (III) and valid reason ; 60 ₄ ²⁻ and valid reason ;			
ammoniu	Im/NH_4^+ and valid reason ;		[3]	
			[Total: 10]	