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.

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	Page 2		Mark Scheme: Teachers' version	Syllabus	Paper
			IGCSE – May/June 2011	0653	51
1	(a)	2 read	ings for inhaled air ;		[1]
	(b)	(b) 2 readings for exhaled air and average of 2 readings less than average or readings in (a);			of 2 [1]
	(c)	E	average for inhaled air ; average for exhaled air ; nhaled air = higher reading than exhaled air ;		[3]
		r	ime for atmospheric/inhaled air longer ; nore oxygen ; reverse argument true) (ignore references to carbon	dioxide)	[2]
	((exhaled – cloudy and atmospheric/inhaled – clear ; CO_2 linked to cloudiness or to B ; espiration/breathe out CO_2 /no CO_2 in A ;		[3]
					[Total: 10]
2	(a)	measu	rement clearly in mm ;		[1]
	(b)	force c increas	of results ; correct (2.0, 3.0, 4.0, 5.0) ; se in length greater as goes down ; se in length is correct ;		[4]
	(c)		e scale ; g correct for at least 4 points ;		[2]
	(d)	yes, w	ith suitable explanation ;		[1]
	(e)	suitabl	e straight line or curve drawn related to answer in (d)	;	[1]
	(f)	read c	orrectly ;		[1]
					[Total: 10]

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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]
iron(III)/	 (any order) iron(III)/Fe³⁺/Fe (III) and valid reason ; sulfate/SO₄²⁻ and valid reason ; 		
	Im/NH_4^+ and valid reason ;		[3]
			[Total: 10]

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