MARK SCHEME for the May/June 2014 series

0620 CHEMISTRY

0620/53

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 should be read in conjunction with the question paper and the Principal Examiner Report for Teachers.

Cambridge will not enter into discussions about these mark schemes.

Cambridge is publishing the mark schemes for the May/June 2014 series for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level components and some Ordinary Level components.



	Page 2		Mark Scheme	Syllabus	Paper
			IGCSE – May/June 2014	0620	53
1	(a)	Table of			
		all tempe			
		compara	able to supervisors: max temp change +/– 3°C of sup	pervisor (1)	[2]
	(b)	Table of			
		all temperature boxes completed (1)			
		compara	able to supervisors: max temp change +/– 3°C of sup	pervisor (1)	[2]
	(c)	bubbles/	/fizz/effervescence (1)		[1]
	(d)	all points			
		smooth l	ine graphs (2)		
		labels (1)		[6]
	(e)	(i) valu	e from graph $^+/$ half small square (1) shown clearly	on graph (1)	[2]
		(ii) valu	e from graph $^+/$ half small square (1) shown clearly	on graph (1)	[2]
	(f)	endother	rmic (1)		[1]
	(g)	M is a ca	arbonate/hydrogen carbonate/carbon dioxide given	off (1)	[1]
	(h)	lower ter	mperature changes (1)		
		temp cha	ange is half experiment 1 (1)		[2]
	(i)	room ten	nperature or initial temperature from table (1)		
		reaction	finished/exchange of heat energy with surrounding	s (1)	[2]
	(j)	more rea	adings/points (1)		[1]
					[Total: 22]

	Page 3	Mark Scheme	Syllabus	Paper			
		IGCSE – May/June 2014	0620	53			
2	tests on solid P						
	(a) black (solid/powder) see part (d)						
	(b) (i) (turr	ns) blue (solution) (1)		[1]			
	(ii) blue	e (1) precipitate(1)		[2]			
	(iii) brov	wn (1) white/cream precipitate(1)		[2]			
	(c) green (1) (allow blue/green but not just blue)		[1]			
	blue pre	cipitate (1) dark/royal/deep blue (1)					
	solution	/soluble/dissolves(1)		[3]			
	tests on solic	d Q					
	(d) brown/r	ed (solid/powder) (1) must have (a) and (d) correct		[1]			
	(e) (i) blue	e solution (1) red/brown solid (1)		[2]			
	(ii) blue	e precipitate (1)		[1]			
	(iii) dee	p blue (1) solution (1)		[2]			
	(f) copper (1) oxide (1)		[2]			
	(g) copper (1)		[1]			
				[Total: 18]			