CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

MARK SCHEME for the October/November 2013 series

0620 CHEMISTRY

0620/53

Paper 5 (Practical), maximum raw mark 40

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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 October/November 2013 series for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level components and some Ordinary Level components.



	Page 2)	Mark Scheme	Syllabus	Paper
				IGCSE – October/November 2013	0620	53
1	(a)	 (a) table of results for Experiment 1 initial and final volumes and differences completed correctly (1) to 1 decimal place (1) comparable to supervisors (1) ±2 cm³ 				[3]
	(b)	initi to 1	al ano deci	results for Experiment 2 d final volumes and differences completed correctly mal place (1) lble to supervisors (1) ±2 cm ³	(1)	[3]
	(c)	gre pre	•			max [2]
	(d)	(i)		urless / pale green not clear to yellow / pink (1) / purple to colourless		[1]
		(ii)		an acid / alkali reaction or potassium manganate is o needed / would interfere (1)	coloured / owtte	[1]
	(e)	(i)	expe	eriment 2 (1)		[1]
		(ii)	expe	eriment 2 2x volume experiment 1		[1]
		(iii)		tion E more concentrated / stronger (1) or converse s concentrated (2)		[2]
	(f)			e from table result for experiment 2 (1) me of C used (1)		[2]
	(g)			ge easy to use / quick / convenient (1) ntage not accurate / owtte (1)		[2]
	(h)	iror	n (1)(I	I) (1) oxidised to iron(III) / reacted with air (1)		[3]

	Page 3		Mark Scheme	Syllabus	Paper
			IGCSE – October/November 2013	0620	53
2	(a)				[4]
	(b)	glowing	cence (1) / (max 1) splint (1) orighter (1)		[3]
	(c)	red / bro precipita with acid			[3]
	(d)	yellow (1 precipita with acid			[3]
	(e)	turns gre bubbles	een (1) / fizz / effervescence (1)		[2]
	(f)	reversibl solution	e (1) returned to original colour (1)		[2]
	(g)	oxygen (1)		[1]
	(h)	transition	matal (ian procent) / noutral dependent on pH in (a) (1)	[4]

(h) transition metal (ion present) / neutral dependent on pH in (a) (1) [1]