## **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

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.

**BBCAMRRIDGE** 

	Page 2			Mark Scheme	Syllabus	1.0
				IGCSE – October/November 2013	0620	Pape
1	(a)	initia to 1	al and deci	results for Experiment 1 d final volumes and differences completed correctly mal place (1) lble to supervisors (1) ±2cm <sup>3</sup>	· (1)	A. PapaCambrid
	(b)	initia to 1	al and deci	results for Experiment 2 d final volumes and differences completed correctly mal place (1) ble to supervisors (1) ±2 cm <sup>3</sup>	(1)	[3]
	(c)	pred	en (1) cipita			max [2]
	(d)			urless / pale green <b>not</b> clear to yellow / pink (1) / purple to colourless		[1]
				an acid / alkali reaction or potassium manganate is oneeded / would interfere (1)	coloured / owtte	[1]
	(e)	(i)	ехре	eriment 2 (1)		[1]
		(ii)	expe	eriment 2 2x volume experiment 1		[1]
				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) advantage easy to use / quick / convenient (1) disadvantage not accurate / owtte (1)

(h) iron (1)(II) (1) oxidised to iron(III) / reacted with air (1)

[2]

[3]

Page 3	Mark Scheme	Syllabus
	IGCSE – October/November 2013	0620

(a) yellow (1) 2 pH = 6-8(1)with acid turns orange (1) with excess alkali yellow (1)

**(b)** blue (1) effervescence (1) / (max 1) glowing splint (1) relights/brighter (1)

[3]

(c) red / brown (1) precipitate (1) with acid yellow solution / dissolves (1)

[3]

(d) yellow (1) precipitate (1) with acid yellow solution / dissolves (1)

[3]

(e) turns green (1) bubbles / fizz / effervescence (1)

[2]

(f) reversible (1) solution returned to original colour (1)

[2]

(g) oxygen (1)

[1]

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

[1]