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## **CAMBRIDGE INTERNATIONAL EXAMINATIONS**

**Cambridge International General Certificate of Secondary Education** 

## MARK SCHEME for the October/November 2014 series

## 0620 CHEMISTRY

0620/52

Paper 5 (Practical), maximum raw mark 40

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			Cambridge IGCSE – October/November 2014	0620	52
1	(a)	initi	Table of results for Experiment 1 initial and final volumes and difference completed correctly (1) to 1 decimal place (1)		
		con	nparable to supervisors (1) ±2 cm <sup>3</sup>		[3]
	(b)	Initi	ole of results for Experiment 2 al and final volumes completed correctly (1) I difference (1)		
			nparable to supervisors (1) ±2 cm <sup>3</sup>		[3]
	(c)	(i)	yellow, <b>not</b> orange to pink / orange (1) <b>not</b> red		[1]
		(ii)	as an indicator / to show end point (1) ignore to see colour change		[1]
	(	(iii)	neutralisation (1)		[1]
	(d)	(i)	experiment 1 (1)  allow: ecf from tables		[1]
		(ii)	quantitative comparison experiment 1 4X volume experiment 2/x cm <sup>3</sup> more than (1)		[1]
		(iii)	solution B more concentrated/stronger (1) or converse explanation e.g. 4X as concentrated/less volume used (1)		[2]
	(e)	half	value / half value from table result for experiment 2 (1) cm <sup>3</sup> (1)		[2]
	(f)		rantage sy to use / quick / convenient (1)		
			advantage accurate (1)		[2]
	(g)		ne volume of each solution (1) add suitable named reactant (1) ected observation (1) comparison (1)		
			. 10 cm <sup>3</sup> of each acid (1) add strip of magnesium/named carbonate (ervescence (1) more rapid bubbles means stronger acid (1)	1)	[4]

**Mark Scheme** 

**Syllabus** 

Р	age	3	Mark Scheme	Syllabus	Paper
			Cambridge IGCSE – October/November 2014	0620	52
2	(a)	(i)	purple / black / violet (1) crystals (1)		[2]
		(ii)	drops / condensation at top of tube (1) colour change to green/grey green on cooling (1)	<i>(</i> (1)	max [2]
	(b)	(i)	green / grey (1) <b>not</b> white precipitate (1)		[2]
			dissolves / clears (1)		[1]
		(ii)	green / grey not white precipitate (1) insoluble (1)		[2]
	(c)		e / green (1) glowing splint (1) relights / glows brighter (1) ervescence / bubbles (1)		max [3]
	(d)	no	reaction / no precipitate / no change / colourless solution (1)		[1]
	(e)	whi	ite (1) precipitate (1)		[2]
	(f)	•	drated/water (1)  w transition metal		[1]
	(g)		halide / chloride / iodide (1) sulfate (1) nsition metal / iron / chromium / catalyst (1)		[3]