## MARK SCHEME for the October/November 2014 series

## 0620 CHEMISTRY

0620/53

Paper 5 (Practical), maximum raw mark 40

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Pa	ge 2		Syllabus	Paper
		Cambridge IGCSE – October/November 2014	0620	53
1	(d)	table of results initial temperature boxes completed correctly (1) final temperature boxes correctly completed (1) differences correct (1) include minus signs comparable to supervisors (1)		[4]
	(e)	bubbles / fizzing / effervescence (1) blue precipitate (1)		[2]
	(f)	all bars at correct levels (2), suitable scale (1) labels (1)		[4]
	(g)	(i) experiment 2 (1)		[1]
		(ii) experiments 2 and 3 (1) temperature decreased (1)		[2]
	(h)	(i) half temperature change / half value in table (1)		[1]
		(ii) half temperature change / half value in table (1)		[1]
		iii) half amount of solid used (1)		[1]
	(i)	room temperature / value from table (1) finished dissolving / reacting (1)		[2]
	(j)	carbonate (1) carbon dioxide (1) acid (1) Cu <sup>2+</sup> (1)		max [2]

Pa	age 3		Syllabus	Paper			
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2	tests on solution M						
		colourless see test <b>(e) ignore</b> clear pH 1–3 (1)		[1]			
	(b)	bubbles (1) lighted splint goes out (1)		[2]			
		fizz / bubbles etc. (1) lighted splint (1) pops (1)		[3]			
	(d)	white (1) precipitate (1)		[2]			
		appearance colourless (1) must have <b>(a)</b> correct as well pH 11–14 (1)		[1] [1]			
		colourless / no change (1) with excess white (1) precipitate (1)		[3]			
		litmus paper turns blue (1) pungent smell (1) <b>do not allow:</b> strong		[2]			
	(h)	(i) hydrogen (1)		[1]			
		(ii) ammonia (1)		[1]			
		hydrochloric acid (2) <b>note:</b> acid / chloride only (1)		[2]			
	(j)	(sodium / potassium) hydroxide (1)		[1]			