MARK SCHEME for the October/November 2010 question paper

for the guidance of teachers

0620 CHEMISTRY

0620/51 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 must be read in conjunction with the question papers and the report on the examination.

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Page 2		ge 2	Mark Scheme: Teachers' version Syllabus		Syllabus	Paper
		-		oer/November 2010	0620	51
1	(a)	Table of results for <i>Experiment 1</i> initial temperature boxes completed correctly (1) other temperature boxes correctly completed (1) comparable to supervisors (1) i.e. decreasing			[3]	
	(b)	initial/fina	results for <i>Experiment</i> al temperature boxes co able to supervisors (1) i	ompleted correctly (1)		[2]
	(c)		s correctly plotted (3), – traight line graphs draw)	-		[6]
	(d)	(i) valu	e from graph (1) shown	clearly (1)		[2]
		(ii) valu	ie from graph (1) shown	clearly (1)		[2]
	(e)	endothe	rmic			[1]
	(f)	temperature (changes) would be smaller owtte (1) more water (1) ignore references to rate			[2]	
	(g)	solid would dissolve/react slower or take longer to observe final temperature (1) smaller surface area (1)) [2]	
	(h)	lag apparatus/use a lid or insulate /use digital thermometer/ use a pipette or burette instead of measuring cylinder/use data logging device ov not repeat and average			owtte [1]	
						[Total: 21]
2	(a)	yellow (1	1) precipitate (1)			[2]
	(b)	white (pr	recipitate)			[1]
	(c)		cence/fizz/bubbles (1) er blue/purple/> 7 (1)) max 2	ignore references to hydi	rogen	[2]

Page 3	Mark Scheme: Teachers' version	Syllabus	Paper
	IGCSE – October/November 2010	0620	51
	own/orange colour hot (1) es white when cool (1)		[2]
(e) bubbles/f limewate	izz etc (1) r turns milky (1)		[2]
	e precipitate (1) blves/clears (1)		[2]
	e precipitate (1) olves/clears (1) see Supervisor's report		[2]
(g) ammonia	ignore hydrogen		[1]
(h) silver/lea nitrate (1			[2]
	llow aluminium dependent on (f) (ii) carbon dioxide (when acid added) (1) e (1)		[3]
			[Total: 19]