UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

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.

• CIE will not enter into discussions or correspondence in connection with these mark schemes.

CIE is publishing the mark schemes for the October/November 2010 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.



	Page 2		Mark Scheme:	: Teachers' version	rs' version Syllabus	
			IGCSE – Octol	ber/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)	Table of initial/fina compara	results for <i>Experiment</i> al temperature boxes co ble to supervisors (1) i	2 ompleted correctly (1) .e. increasing		[2]
	(c)	all points best fit st labels (1	correctly plotted (3), – traight line graphs draw)	1 for any incorrect n with a ruler (2)		[6]
	(d)	(i) valu	e from graph (1) shown	clearly (1)		[2]
	()	(ii) valu	e from graph (1) shown	clearly (1)		[2]
	(e)	endother	mic			[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)				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 ow not repeat and average				owtte [1]
						[Total: 21]
2	(a)	yellow (1) precipitate (1)			[2]
	(b)	white (pr	ecipitate)			[1]
	(c)	efferveso pH pape smell (1)	cence/fizz/bubbles (1) r blue/purple/> 7 (1) max 2	ignore references to hydro	gen	[2]

Page 3		Mark Scheme: Teachers' version	Syllabus	Paper
		IGCSE – October/November 2010	0620	51
(d)	yellow/br faded/go		[2]	
(e)	bubbles/ limewate	fizz etc (1) er turns milky (1)		[2]
(f)	(i) white disse	e precipitate (1) olves/clears (1)		[2]
	(ii) white disse	e precipitate (1) olves/clears (1) see Supervisor's report		[2]
(g)	ammonia	a ignore hydrogen		[1]
(h)	silver/lea nitrate (1	ad (1))		[2]
(i)	zinc (1) a gives off carbonat	allow aluminium dependent on (f) (ii) carbon dioxide (when acid added) (1) te (1)		[3]
				[Total: 19]