## MARK SCHEME for the October/November 2010 question paper

## for the guidance of teachers

## 0620 CHEMISTRY

0620/52 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		ge 2	Mark Scheme: Teachers' version Syllabus		Syllabus	Paper
					0620	52
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	e from graph (1) shown	clearly (1)		[2]
	(e)	endothei	rmic			[1]
	(f)	-	rature (changes) would be smaller owtte (1) vater (1) ignore references to rate		[2]	
	(g)		uld dissolve/react slowe surface area (1)	er or take longer to observe	final temperature (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	I) precipitate (1)			[2]
	(b)	white (pr	recipitate)			[1]
	(c)		cence/fizz/bubbles (1) r blue/purple/> 7 (1) ) max 2	ignore references to hydr	ogen	[2]

Page 3	Mark Scheme: Teachers' version	Syllabus	Paper
	IGCSE – October/November 2010	0620	52
	rown/orange colour hot (1) les white when cool (1)		[2]
<b>(e)</b> bubbles/ limewate	fizz etc (1) er turns milky (1)		[2]
	e precipitate (1) olves/clears (1)		[2]
	e precipitate (1) olves/clears (1) see Supervisor's report		[2]
(g) ammonia	a ignore hydrogen		[1]
(h) silver/lea nitrate (1			[2]
•••••••••••••••••••••••••••••••••••••••	allow aluminium dependent on <b>(f) (ii)</b> carbon dioxide (when acid added) (1) æ (1)		[3]
			[Total: 19]