## MARK SCHEME for the May/June 2013 series

## 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 should be read in conjunction with the question paper and the Principal Examiner Report for Teachers.

Cambridge will not enter into discussions about these mark schemes.

Cambridge is publishing the mark schemes for the May/June 2013 series for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level components and some Ordinary Level components.



	Page 2		Mark Scheme	Syllabus	Paper		
			IGCSE – May/June 2013	0620	51		
1	(c)	Table of results for Experiments 1–4					
		mass of	solids correctly recorded (1)				
		initial and	d maximum temperature boxes correctly complete	ed (1)			
		temperat					
		temperat	ture changes increasing (1)		[4]		
	(d)	results fo	or Experiment 5				
		initial and	d final temperatures completed (1)				
		temperat	ture change completed correctly <b>and</b> shown as ne	egative (1)	[2]		
	(e)	appropria	ate scale on y-axis which uses at least half of the	grid (1)			
		all points	s correctly plotted (2), -1 for any incorrect ignore	: origin			
		best fit s	traight line graph drawn with a ruler (1)		[4]		
	(f)	(i) valu	e from graph (1) extrapolation shown clearly (1)		[2]		
			e from graph (1) wn clearly (1)		[2]		
	(g)	endother	mic (1)		[1]		
	(h)	lower ter	mperature change (1)				
			volume/more acid (1) lved = 2 marks		[2]		
	(i)	room tem					
		reaction	finished / owtte (1)		[2]		
	(j)	advantag					
		ignore: re	eference to accuracy or reliability				
		disadvar	ntage e.g. reaction not finished / temperature still o	changing (1)	[2]		

Pa	age 3	Mark Scheme	Syllabus	Paper				
		IGCSE – May/June 2013	0620	51				
2 tes	ests on liquid A							
(a)	(a) colourless (1) not: clear and							
		cidic/vinegar/sour/pungent/bitter/strong not: swee	t	[1]				
	red/oran	ge/yellow (1) pH = 3–6 (1)		[2]				
(b)	bubbles/	/fizzes/effervesces (1)						
	lighted s	plint (1)						
	pops (1)	ignore: hydrogen		[3]				
(c)	slow/few bubbles/	/ (1) /effervescence/fizz (1)		[2]				
(d)	blue/gre	en colour (1) not: precipitate		[1]				
	tests on	liquid B						
(e)		ow/orange (1) s green (1)						
		blue		[2]				
		/purple (1) turns colourless/decolourises (1) clear		[2]				
(f)		blue/yellow/orange (1) flame/catches fire/lights (1)						
				[2]				
(g)	ethanoic	acid/vinegar (2)		[2]				
(h)	organic	(1) fuel (1) not: flammable						
	note: eth	nanol/alcohol = 2		[2]				