

MARK SCHEME for the May/June 2013 series

0620 CHEMISTRY

0620/51

Paper 5 (Practical), maximum raw mark 40

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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			
		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 and shown as neg	ative (1)	[2]
	(e)	appropria			
		all points	s correctly plotted (2), -1 for any incorrect ignore: o	origin	
		best fit st	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	rmic (1)		[1]
	(h)	lower ter	nperature change (1)		
		-	volume/more acid (1) ved = 2 marks		[2]
	(i)	room tem	perature / initial temperature from table (1)		
		reaction	finished / owtte (1)		[2]
	(j)	advantag	ge e.g. comparability of results/fair test (1)		
		ignore: re	eference to accuracy or reliability		
		disadvan	ntage e.g. reaction not finished / temperature still ch	anging (1)	[2]

	Page 3		Mark Scheme	Syllabus	Paper			
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2	test	s on liquid A						
	(a)	and	ss (1) not: clear acidic/vinegar/sour/pungent/bitter/strong not: sweet		[1]			
		red/orar	nge/yellow (1) pH = 3–6 (1)		[2]			
	(b)	bubbles						
		lighted s	splint (1)					
		pops (1)) ignore: hydrogen		[3]			
	(c)	slow/few (1) bubbles/effervescence/fizz (1)			[2]			
	(d)	blue/green colour (1) not: precipitate			[1]			
		tests on						
	(e)		ow/orange (1)					
			ns green (1) : blue		[2]			
			<pre>k/purple (1) turns colourless/decolourises (1) clear</pre>		[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: ethanol/alcohol = 2			[2]			