## MARK SCHEME for the May/June 2010 question paper

## for the guidance of teachers

## 0620 CHEMISTRY

0620/62

Paper 62 (Alternative to Practical), maximum raw mark 60

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		Mark Scheme: Teachers' version	Syllabus	Paper
			IGCSE – May/June 2010	0620	62
1	(a)	Bunsen (	(burner) (1) tripod (1) condenser (1)		[3]
	(b)	<b>(i)</b> F (1)	) allow description		
		<b>(ii)</b> G (1	) allow description		[2]
2	(a)	pestle ar	nd/or mortar (1) accept diagram not bowl/crusher		[1]
	(b)	pour off/o	out liquid owtte (1) not separate/filter		[1]
	(c)	apply sol use of (n conclusio	ography/chromatogram (1) lution to paper (1) named) solvent (1) not water on/results/spots at different levels (1) s can be scored from a labelled diagram		
			paper in green solution = max 2		[4]
3	(a)		completed correctly 5, 41, 45, 46 –1 for each incorrect		[3]
	(b)	points plo smooth c	otted correctly including origin (3) –1 for each inco curve (1)	orrect	[4]
	(c)		2 minutes (1) e owtte (1)		[2]
	(d)	steeper o	curve (1) levels out at same volume (1)		[2]

	Page 3		Mark Scheme: Teachers' version	Syllabus	Paper
			IGCSE – May/June 2010	0620	62
4	(a)	Table o tempera 23 25	rrect	[2]	
	(b)	tempera	f results for Experiment 2 ature boxes completed correctly (2), –1 for each inco 35 33 31 29 27	rrect	[2]
	(c)		ts correctly plotted (3), –1 for any incorrect line graphs (2) or two intersecting straight lines 1)		[6]
	(d)	value fr	om graph ±1 small square (1) shown clearly (1)		[2]
	(e)	(i) exp	periment 2 (1)		[1]
		stro	d D more concentrated (1) onger (1) re collisions (1)		max [2]
	(f)	room te	n it/remove acid C owtte (1) Imperature or initial temperature from table (1) In finished owtte (1)		[1] [2]
5	Tes	ts on so			
	(c)	• •	ite (1) precipitate (1) change with excess/insoluble (1)		[3]
		<b>(ii)</b> no	reaction/thin/slight precipitate (1)		[1]
	(d)	d) contains water/hydrated (1)			[1]
	(e)	not a su	Ilfate (1) accept not a carbonate		[1]
	(f)	ammon	ia (1) not ammonium		[1]
	(g)	not a su	1) d salt (1) Ilfate (1) arbonate (1) max [2]		[2]

	Page 4	Mark Scheme: Teachers' version	Syllabus	Paper
		IGCSE – May/June 2010	0620	62
6	(a) electroly	a) electrolysis (1)		[1]
	<b>(b)</b> platinum	/graphite/carbon (1)		[1]
	••••	nus/universal indicator paper/pH paper (1) s/turns white (1)		[2]
	(d) hydroger	ר) (1)		[1]
7	heat (1) for specified/s observe reac			[6]
	or heat metal (1) repeat with other metal (1) method for measuring conductivity (1) max [3]		[3]	
				[Total: 60]