## MARK SCHEME for the October/November 2009 question paper

## for the guidance of teachers

## 0620 CHEMISTRY

0620/05

Paper 5 (Practical Test), 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.

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	Page 2			eachers' version	Syllabus	Paper
			GCSE – October	/November 2009	0620	05
1	observations	bbservations bubbles/fizz/tube feels hot/magnesium dissolves				
	lighted splint	t (1)	pops (1)			[2]
	table of results initial boxes correctly completed (1) final boxes correctly completed (1)					
	comparable	to supervi	sor's results (1)	decreasing order (1)		[4]
	(a) differend	ces correc	tly completed			[1]
	<ul> <li>(b) all five bars correctly drawn (3), -1 for each incorrect labelled (1), if points plotted for graph = 1</li> </ul>					
	<b>(c) (i)</b> hyd	rogen				[1]
			dox/displacemer tion/oxidation/red			[1]
	(d) (i) exp	eriment 1	A or from stude	ent's results ecf		[1]
	<b>(ii)</b> sulf	uric acid v	vas the most con	centrated/strongest		[1]
	(e) (i) greater/higher ignore rate					
	(ii) half	the value	or half the value	from the table/lower/dec	rease or less	[1]
	(iii) moi	re/larger v	olume of acid			[1]
	(f) one error source from e.g. heat losses/use of measuring cylinders/magnesium pieces vary in mass/length					[1]
2	(a) solution solution solution	L	colourless colourless colourless (1)	for all three correct n	ot white/clear	[1]
	pH of so pH of so	olution <b>K</b> plution <b>L</b>	approx 11-14	ts –1 for any incorrect		[2]

Page 3	Mark Scheme: Teachers' version	Syllabus	Paper					
	IGCSE – October/November 2009	0620	05					
tests on solution K								
	precipitate (1) p/royal blue solution or precipitate dissolves (1)		[2]					
<b>(ii)</b> whit	e (1) precipitate (1)		[2]					
<b>(iii)</b> no r	eaction/change/colourless solution		[1]					
tests on solution L								
( <b>d) (i)</b> blue	precipitate (1)		[1]					
(ii) whit	e precipitate (1) dissolves/clears (1)		[2]					
(iii) brov	vn (1)		[1]					
tests on solution M								
(e) white (1)	precipitate (1)		[2]					
(f) weak (1)	) alkali/base (1) or ammonia (2)		[2]					
(g) strong (1	) alkali/base/hydroxide (1) or sodium hydroxide (2)		[2]					
(h) chloride acid (1)	(1) not chlorine ion							
( )	chloric acid (2)		[2]					