## MARK SCHEME for the October/November 2011 question paper

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## for the guidance of teachers

## 0620 CHEMISTRY

0620/53

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.

• Cambridge will not enter into discussions or correspondence in connection with these mark schemes.

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Page 2			Mark Scheme: Teachers' version	Syllabus	Paper		
			IGCSE – October/November 2011	0620	53		
l (c)	final diffe	al rea reac renc	results adings completed correctly (1) dings completed correctly (1) all readings to 1 d.p. ( ses completed correctly (1) able to supervisors (2)	(1)	[6]		
(d)	) pink	(1)	to colourless (1) <b>not:</b> clear		[2]		
(e)	) neut	tralis	ation / exothermic (1)		[1]		
(f)	(i)	C/3 :	smallest B/2 largest (1) one correct = 1		[1]		
	(ii)	orde	er is C/3 A/1 B/2 (2) one correct = 1		[2]		
(g)	) expe	erime	ent 2 is twice the volume of experiment 1 or convers	e (1)	[1]		
(h)	) twice	e val	ue from table result for experiment 3 (1) $cm^3$ (1)		[2]		
(i)	use	use a pipette / burette					
(j)		on	none / owtte (1) no change in concentration / temperature has no ef affects speed (1)	fect on quantities	or moles / only [2]		
(k)	usin	any correct method that would work – precise details not needed using same method with different acids = 0 reagents (1) method (1) result (1)					
	Ū	mea	odium hydroxide add named acid (1) sure temperature change (1) est change = strongest / more concentrated solution	(1)			
	-	filter	odium hydroxide add named (excess)metal salt solu precipitate (1) est mass = strongest / more concentrated solution (1				
					[Total: 21]		
2 (a)	) (i)	yella	ow / brown / orange (1)		[1]		
	/;;)	whit	e / colourless (1)		[1]		

(ii) white / colourless (1) [1]

Page 3	Mark Scheme: Teachers' version	Syllabus	Paper			
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(b) (i) no cl	(b) (i) no change / no reaction owtte (1)					
<b>(ii)</b> whit	e (1) precipitate (1)		[2]			
(iii) brov	vn (1) precipitate (1)		[2]			
(iv) brov	vn precipitate (1)		[1]			
( <b>c) (i)</b> solic	white (1) condensation at top of tube (1)					
	water / blue litmus (1) milky / red (1) max 3		[3]			
fizz	/ bubbles / effervescence (1)		[1]			
(ii) fizz	/ bubbles / effervescence / brown precipitate (1)		[1]			
<b>(d)</b> iron (1) (	III) (1) chloride (1)		[3]			
(e) carbon d	lioxide (1)		[1]			
()	te / hydrogen carbonate (1) sition metal / named metal e.g. sodium (1)		[2]			
			[Total: 19]			