UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS International General Certificate of Secondary Education

MARK SCHEME for the May/June 2010 question paper

for the guidance of teachers

0620 CHEMISTRY

0620/52

Paper 52 (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.

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

CIE is publishing the mark schemes for the May/June 2010 question papers for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level syllabuses and some Ordinary Level syllabuses.



	Pag	e 2	Mark Scheme: Teachers' version	Syllabus	Paper	
			IGCSE – May/June 2010	0620	52	
1	Table of results					
	total temp value comp	[5]				
	F	points pl	ate scale for y axis (1) otted correctly(4), –1 for each incorrect <u>traight</u> line graph (1)		[6]	
	(b) (clear liqu	uid formed/no solid visible owtte (1) e.g. no salt left		[1]	
			om graph for 9 cm^3 of water (1) $\pm \frac{1}{2}$ small square ation of straight line shown (1)		[2]	
		sketch g abel (1)	raph below line (1)		[2]	
		solution	tures at which crystals appear lower (1) more dilute in same volume of water/less saturated ture halved as half as much solid = 2	owtte (1)	[2]	
	(f) (don' do n	rovement from e.g. 't use a beaker of cold water to cool solution/ not remove thermometer from the solution/ second person/or IT method to note formation of cry eat	/stals		
	I	diffe loss	xplanation rent rate of heat losses/ of solid on thermometer/ erving formation of first crystals may vary rage		[2]	

	Page 3		Mark Scheme: Teachers' version	Syllabus	Paper
			IGCSE – May/June 2010	0620	52
2	(a)	Tests or	n solid W		
		yellow (precipita	1) ate (1) not solid		[2]
	(b)) Tests on solution X			
		(i) blue pH	e (1) of solution X approx 1–4 (1)		[1] [1]
		(ii) blue pree	e (1) cipitate (1)		[2]
		darl	e precipitate (1) ker/deep/royal blue (1) ition (1) or precipitate dissolves/goes clear		[3]
		crea	wn (liquid/solution) (1) am/white (1) d/precipitate (1)		[3]
	(c)	Tests or	n solution Y		
		(i) pH	1–3 (1)		[1]
		(ii) whit prea	te (1) cipitate (1)		[2]
	(d)	iodide o	r ⊡(1) not iodine		[1]
	(e)	copper (acidic (1			[2]
(f)		sulfate only (1) acid only (1)			
			acid (2) max [2]		[2]
					[Total: 40]