## UNIVERSITY OF CAMBRIDGE INTERNATIONAL EXAMINATIONS

**International General Certificate of Secondary Education** 

## MARK SCHEME for the May/June 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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[2]

[1]

[2]

[1]

га	ge 2	Mark Scheme: Teachers' version	Syllabus	er
		IGCSE – May/June 2009	0620	Day
Tab	ole of resi	ults	•	Talny.
Fin:	al temper erage tem	rature boxes completed correctly i.e. increasing drature boxes correctly completed i.e. lower or the apperature boxes correctly completed (1) leted correctly i.e. descending (1) in seconds (1)	ownwards (1) same (1)	trapape Pacambric
(a)		correctly plotted (2), -1 for any incorrect line graph is a curve (1)		[3]
(b)	pale yel	low/cream/white (1) not cloudy/milky		[1]
(c)	(i) exp	eriment 5 (1)		[1]
	` '	re energy owtte (1) particles move faster (1) more re collisions (1)	kinetic energy = 2	[3
(d)	idea of a	a fair test/to compare effect of changing the tempe	erature (1)	[1
(e)	` '	ue from graph (1) unit (1) rapolation shown (1)		[3
	(ii) curv	ve sketched on grid below original curve (1)		[1
(f)		e.g. use of data logger/colourimeter (1) or use of experiments/use a burette or pipette	lagging/insulation	
	•	tion e.g. timing of reaction more accurate (1) to re e readings for times/more accurate volumes	duce heat losses	[2
				[Total: 20]

(a) black (solid) see (d)

**(b)** effervescence (1)

(i) blue (1) precipitate (1)

(c) blue (1)

splint ignites/catches fire or glows brighter (1)

on heating turns brown/black/darkens (1)

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Page 3	Mark Scheme: Teachers' version	Syllabus	
	IGCSE – May/June 2009	0620	

(ii) blue (1) precipitate (1)with excess dissolves/clears (1) deep/royal blue (1)

(iii) white (1) precipitate (1)

(d) black/dark brown solid (1) MUST HAVE (a) correct as well [1]

(e) effervescence (1) splint relights (1) ignore pops [2]

(f) (i) V is more reactive/faster or converse (1) [1]

(ii) oxygen (1) [1]

(g) copper (1) oxide (1) reacts with sulfuric acid to form copper sulfate (1) max 2 [2]

(h) catalyst/transition metal/manganese oxide (1) [1]

[Total: 20]