

November 2003

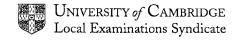
INTERNATIONAL GCSE

MARK SCHEME

MAXIMUM MARK: 40

SYLLABUS/COMPONENT: 0620/05

CHEMISTRY Practical



	uesti lumb		0620/05 MARK SCHEME DETAILS November 2003		Part Mark
1			Times recorded in seconds in table	(1)	
			Times increasing in magnitude	(1)	
			Comparable to Supervisor's results	(2)	4
	(a)		Suitable scale for time/s	(1)	
			Points plotted correctly	(2)	
			-1 for each incorrect		
			Smooth line graph	(1)	4
	(b)		colourless	(1)	
			to blue/purple	(1)	2
	(c)		Estimate read from graph	(1)	
			Unit	(1)	2
			Indication correct on graph	(1)	1
	(d) (i)	Experiment 1	(1)	1
	(ii)	Greatest concentration of bromate	(1)	
			therefore more collisions	(1)	2
	(e) (i)	Two sources of error	(2)	
			e.g. inaccurate measurement of named liquid into beaker/stopping timer at same colour level/timing problem – <u>not</u> use of timer		2
	(ii)	Two improvements	(2)	
			e.g. use a burette/use a colorimeter/read and average		2
				Sub-tot	al = 20
2	(a)		yellow/brown/orange	(1)	1
	(b) ((i)	orange/brown	(1)	
			precipitate	(1)	
			remains/insoluble in excess	(1)	3
	((ii)	Litmus → blue/indicator pH > 7	(1)	
			smell of gas	(1)	2
	(c)		orange/brown	(1)	
			precipitate	(1)	
			remains/insoluble in excess	(1)	3

Total for paper = 40

(d)	fizz/bubbles etc	(1)	
	lighted splint	(1)	
	pops	(1)	3
	green	(1)	
	precipitate	(1)	
			2
(e)	white	(1)	
	precipitate	(1)	
			2
(f)	iron(III) = 2 marks, iron only = 1 mark	(2)	
	ammonium	(1)	
	sulphate	(1)	
	or correct formulae		4
		Sub-total = 20	