

June 2003

INTERNATIONAL GCSE

MARKING SCHEME

MAXIMUM MARK: 40

SYLLABUS/COMPONENT: 0620/05

CHEMISTRY

(Practical)



Page 1	Mark Scheme	Syllabus	Paper
	IGCSE EXAMINATIONS – June 2003	0620	5

- 1
- Table of results
- Experiment 1 Initial and final readings recorded [1]
to 1 decimal place [1]
- Experiment 2 Initial and final readings recorded [1]
to 1 decimal place [1]
- Results comparable to Supervisor's results $\pm 1 \text{ cm}^3$ [2]
- (a) red/burgundy/brown [1]
- (b) yellow (1) to blue/black (1) see Supervisor [2]
IGNORE green
- (c) (i) Experiment 1 [1]
(ii) $\Delta 2 \times$, double volume (1) in Experiment 1 (1) not just more [2]
(iii) potassium iodate less concentrated solution **C** than **B** or vice versa [1]
not different concentrations
(iv) $2 \times$ volume from table for Experiment 1 (1) unit (1) [2]
 $2 \times$ iodine formed [1]
- (d) Indicator (1) reference to accuracy (1)/end-point/see more clearly [2]
not test for I_2/I^-

[Question total: 18]

- 2 (a) bubbles/condensation/goes black max 2 [2]
- (b) filtrate - colourless not clear [1]
residue - green [1]
- (c) (i) effervescence/fizz/bubbles [1]
limewater \rightarrow milky [1]
solution is blue [1]
(ii) blue (1) precipitate (1) [2]
royal/deep blue (1) solution (1) [2]
- (d) (i) white (1) precipitate (1) dissolves in excess (1) [3]
(ii) white (1) precipitate (1) dissolves (1) [3]
(iii) white precipitate (1) [1]
- (e) zinc (1) sulphate (1) reversed = 0 [2]
- (f) copper (1) carbonate (1) reversed = 0 [2]
hydrated (1) max 2

[Question total: 22]

[Total for paper: 40]

Results obtained for Question 1/cm³

	1 st	2 nd
Experiment 1	16.5	16.3
Experiment 2	8.3	8.2