

Cambridge International Examinations

Cambridge International General Certificate of Secondary Education

CHEMISTRY 0620/53

Paper 5 Practical Test May/June 2017

MARK SCHEME
Maximum Mark: 40

Published

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 should be read in conjunction with the question paper and the Principal Examiner Report for Teachers.

Cambridge will not enter into discussions about these mark schemes.

Cambridge is publishing the mark schemes for the May/June 2017 series for most Cambridge IGCSE[®], Cambridge International A and AS Level and Cambridge Pre-U components, and some Cambridge O Level components.

® IGCSE is a registered trademark.

This syllabus is approved for use in England, Wales and Northern Ireland as a Cambridge International Level 1/Level 2 Certificate.



May/June 2017

Cambridge IGCSE – Mark Scheme **PUBLISHED**

Question	Answer	Marks
1(a)	volume at time = 0 s completed correctly	1
	all volumes completed and in ascending order	1
1(b)	volume at time = 0 s completed correctly AND all volumes completed and in ascending order	1
	gas volumes increase less quickly at the start of Experiment 2 than at the start of Experiment 1	1
1(c)	all points correctly plotted	2
	two smooth lines	1
	labelled	1
1(d)	Experiment 1	1
	more concentrated/stronger acid/the acid has a lower pH	1
1(e)	volume of gas at 30 s	1
	correct calculation of rate	1
	unit: cm ³ /s OR cm ³ s ⁻¹	1
1(f)	all the magnesium will have reacted	1
1(g)	faster reaction/increased rate	1
	magnesium powder has a higher surface area	1

© UCLES 2017 Page 2 of 4

May/June 2017

Cambridge IGCSE – Mark Scheme **PUBLISHED**

Question	Answer	Marks
1(h)	advantage: easy to use/quick	1
	disadvantage: not accurate	1
1(i)	use of burette/pipette/gas syringe/weighed amount of magnesium/repeat experiment (and average)/clean the magnesium/remove oxide layer	1

Question	Answer	Marks
2(a)	black (powder)	1
2(b)(i)	bleached/white/decolourised	1
2(b)(ii)	brown	1
	precipitate	1
2(c)	chlorine	1
2(d)	any 3 from: turns yellow bubbles/fizz red/brown/orange precipitate	3
2(e)	yellow/brown	1
	blue/black	1
2(f)	turns colourless	1

© UCLES 2017 Page 3 of 4

May/June 2017

Cambridge IGCSE – Mark Scheme **PUBLISHED**

Question	Answer	Marks
2(g)	fizz/bubbles	1
	glowing splint	1
	relights	1
2(h)	oxygen	1

Question	Answer	Marks
3	any 6 from:	6

© UCLES 2017 Page 4 of 4