

Cambridge Assessment International Education

Cambridge International General Certificate of Secondary Education

CHEMISTRY 0620/61

Paper 6 Alternative to Practical

October/November 2019

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 International will not enter into discussions about these mark schemes.

Cambridge International is publishing the mark schemes for the October/November 2019 series for most Cambridge IGCSE™, Cambridge International A and AS Level components and some Cambridge O Level components.

This document consists of 6 printed pages.



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Generic Marking Principles

These general marking principles must be applied by all examiners when marking candidate answers. They should be applied alongside the specific content of the mark scheme or generic level descriptors for a question. Each question paper and mark scheme will also comply with these marking principles.

GENERIC MARKING PRINCIPLE 1:

Marks must be awarded in line with:

the specific content of the mark scheme or the generic level descriptors for the question the specific skills defined in the mark scheme or in the generic level descriptors for the question the standard of response required by a candidate as exemplified by the standardisation scripts.

GENERIC MARKING PRINCIPLE 2:

Marks awarded are always whole marks (not half marks, or other fractions).

GENERIC MARKING PRINCIPLE 3:

Marks must be awarded **positively**:

marks are awarded for correct/valid answers, as defined in the mark scheme. However, credit is given for valid answers which go beyond the scope of the syllabus and mark scheme, referring to your Team Leader as appropriate

marks are awarded when candidates clearly demonstrate what they know and can do

marks are not deducted for errors

marks are not deducted for omissions

answers should only be judged on the quality of spelling, punctuation and grammar when these features are specifically assessed by the question as indicated by the mark scheme. The meaning, however, should be unambiguous.

GENERIC MARKING PRINCIPLE 4:

Rules must be applied consistently e.g. in situations where candidates have not followed instructions or in the application of generic level descriptors.

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GENERIC MARKING PRINCIPLE 5:

Marks should be awarded using the full range of marks defined in the mark scheme for the question (however; the use of the full mark range may be limited according to the quality of the candidate responses seen).

GENERIC MARKING PRINCIPLE 6:

Marks awarded are based solely on the requirements as defined in the mark scheme. Marks should not be awarded with grade thresholds or grade descriptors in mind.

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Question	Answer	Marks
1(a)	beaker	1
1(b)	steam / (water) vapour	1
	condenses / cools	1
1(c)	anhydrous copper(II) sulfate / cobalt(II) chloride (paper)	1
	turns blue / pink	1
1(d)	to suck gases / products through apparatus	1
1(e)	turns milky	1
	carbon dioxide formed	1

Question	Answer	Marks
2(a)	table of results volume boxes completed	2
	0, 27, 48, 62, 65, 74, 76, 77, 77	
2(b)	all points plotted correctly	2
	best fit smooth line graph omitting anomalous point at 40 s / 65 cm ³	1
2(c)(i)	point at 40 s / 65 cm ³	1
2(c)(ii)	value from graph	1
	shown clearly	1

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Question	Answer	Marks
2(d)	use of a 250 cm³ measuring cylinder / inaccurate measurements / readings	1
	use a gas syringe / 100 cm³ measuring cylinder	1
2(e)(i)	35 cm ³	1
2(e)(ii)	35/20 = 1.75	1
	cm³/s	1
2(f)	volume of gas less / lower	1
	gas / carbon dioxide dissolved in water	1
2(g)	curve below original	1
	approaching same level	1

Question	Answer	Marks
3(a)(i)	white	1
	precipitate	1
3(a)(ii)	clears / dissolves / colourless solution	1
3(b)(i)	white precipitate	1
3(b)(ii)	clears / dissolves / colourless solution	1
3(c)	bubbles / effervescence	1
	litmus turns blue	1

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Question	Answer	Marks
3(d)	lithium	1
	iodide	1

Question	Answer	Marks
4	any 6 from: known volume of ethanol add known mass of iodine stir / shake filter dry and weigh (undissolved) iodine repeat with hexane conclusion	max 6

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