

VIRAJ INTERNATIONAL ACADEMY

SCIENCE DEPARTMENT

CHEMISTRY YEAR 10 PAPER 5 (Practical)

END OF YEAR ASSESSMENT

ACADEMIC YEAR 2020/2021

DURATION: 45 MINUTES

Additional Materials: • Multiple choice answer sheet. • Soft clean eraser • Soft pencil (type B or HB is recommended) **INSTRUCTIONS:**

1. Write your name, class, subject tutor's name and date in the spaces provided below.

2. There are forty questions on this paper. Answer all questions.

3. For each question there are four possible answers **A**, **B**, **C** and **D**. Choose the one you consider correct and record your choice in soft pencil on the separate multiple choice answer sheet.

4.Do **not** use correction fluid.

5.Follow the instructions on the multiple choice answer sheet.

ADDITIONAL INFORMATION

1. The total mark for this paper is 40.

2. This document has 16 pages. Any blank pages are indicated.

NAME:		MARK SCHEME		
CLASS:		YEAR 10		
SUBJECT	TUTOR:	MR. MASITSA ABEL		
DATE:		TUESDAY 20TH JULY 2021	2:00 PM - 2:45 PM	
				Cambridge Assessment
READ, LEAD, SUCCEED				Cambridge International School

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 guestion. Each guestion 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 . guestion 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.

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.

Cambridge IGCSE – Mark Scheme PUBLISHED

Question	Answer	Marks
1(a)	table of results	
	volumes of aqueous sodium carbonate boxes completed correctly 1, 2, 4, 5, 6, 7	1
	heights of solid boxes completed	1
	in mm	1
	generally in ascending order	1
1(b)	all points plotted correctly	1
	appropriate scale for y-axis	1
	best fit line drawn	1
1(c)	value from graph	1
	shown clearly	1
	unit = mm	1
1(d)	height increases	1
1(e)	improvement:	
	use burette or pipette to measure the barium nitrate / leave to settle longer / use measuring cylinders instead of test- tubes	1
	explanation:	
	instead of measuring cylinder / solid more compact / easier to read	1

Cambridge IGCSE – Mark Scheme PUBLISHED

Question	Answer	Marks
1(f)	M1 filter	1
	M2 dry	1
	M3 weigh solid	1
1(g)	repeat and take average/compare	1
1(h)	precipitation	1

Cambridge IGCSE – Mark Scheme PUBLISHED

Question	Answer	Marks
tests on solution F		
2(a)	0-3	
2(b)	bubbles / fizz / effervescence	1
	lighted splint pops	1
2(c)	white precipitate	1
2(d)	No reaction/change	
	tests on solid G	
2(e)	white (solid)	1
2(f)	bubbles / fizz / effervescence	1
	limewater	1
	turns milky	1
2(g)	white precipitate	1
	remains / insoluble	1
2(h)	no precipitate / no observation / reaction / change	1
2(i)	hydrochloric	1
	acid	1
2(j)	calcium	1
	carbonate	1

Cambridge IGCSE – Mark Scheme SPECIMEN

Question	Answer	Marks
3	Any six from:	6
	chromatography	
	pencil baseline / origin	
	apply orange colour to paper	
	and samples of both E110 and E129	
	depth of solvent is below base line / spots on chromatogram	
	allow the solvent to travel up the paper	
	use a ruler to measure the distance / heights of spots of E-colours against orange drink	
	 conclusion based on height of spots / comparison to known R_f values 	