OCR RECOGNISING ACHIEVEMENT	SPECIMEN
ENTRY LEVEL CERTIFICATE SCIENCE Test C1 Acids and Alkalis	R591 C1
Candidates answer on the question paper OCR Supplied Materials: None Other Materials Required: • None	Duration: 10 minutes
Candidate Forename	Candidate Surname

Centre Number					Candidate Number				
---------------	--	--	--	--	------------------	--	--	--	--

INSTRUCTIONS TO CANDIDATES

- Write your name, Centre Number and Candidate Number in the boxes above. Please write clearly and in capital letters.
- Read each question carefully. Make sure you know what you have to do before starting your answer.
- Answer **all** the questions.

INFORMATION FOR CANDIDATES

- The number of marks for each question is given in brackets [] at the end of each question or part question.
- The total number of marks for this paper is 15.
- This document consists of **4** pages. Any blank pages are indicated.

For Teacher's Use				
Raw Mark/				
15				
Points/				
2				

Answer all questions.

1 (a) Sam makes a dye using beetroot.Label the equipment he uses.Choose words from this list.



[3]

(b) Sam tests his beetroot dye and two other dyes.

He adds an acid and an alkali to each dye.

This table shows his results.

dye	colour in acid	colour in alkali
beetroot	pink	yellow
litmus	red	blue
turmeric	yellow	pink

(i) What colour is litmus in an alkali?

......[1]

(ii) Which dye turns yellow in acid?

[1	[1]	l
----	-----	---

2

2 The colour of Universal Indicator shows the pH.

colour	red	orange	green	blue	purples
рН	1 to 3	4 to 6		8 to 10	11 to 14
strength	strong acid	weak acid	neutral		strong alkali

This tells us the strength of acids and alkalis.

(a) Fill in the two empty boxes in the table.Choose from this list.

		0	7	15		
		weak acid	strong	base	weak alkali	
						[2]
(b)	Use Jod It tu This	the table to help you answ adds Universal Indicator t rns blue. shows washing-up liquid	ver these questio o washing-up liqu has a pH of	ns. Jid. to		. [1]
(c)	Jod It tu Jod	adds Universal Indicator t rns orange . e writes this conclusion.	o lemon juice.			
	Con Len	clusion non juice is strong acid	with a pH betv	ween 4 and 6	Ď.	
	(i)	Do Jodie's results match l	her conclusion?			[1]
	(ii)	Write down one reason fo	or your answer to	part (i).		
						[1]

3 Gill adds an acid to zinc carbonate.

A gas is made. Gill tests the gas like this.

		tube A acid and carbonate tube B limewater	
	(a)	What happens in tube A when the gas is being made?	
		Put a ring around the correct answer.	
		a loud pop	
		bubbles	
		sparks	
	(b)	What colour does the limewater turn in tube B ?	[1] [1]
	(c)	Which gas is made by this reaction?	[1]
4	Neu	utralisation happens when an acid and an alkali are mixed.	[.]
	Put	t ticks (✓) in two boxes to show some uses of neutralisation.	
	colo curi mai mai	ouring clothes ing indigestion king hydrogen	[2]



Copyright Information:

Permission to reproduce items where third-party owned material protected by copyright is included has been sought and cleared where possible. Every reasonable effort has been made by the publisher (OCR) to trace copyright holders, but if any items requiring clearance have unwittingly been included, the publisher will be pleased to make amends at the earliest possible opportunity.

OCR is part of the Cambridge Assessment Group. Cambridge Assessment is the brand name of University of Cambridge Local Examinations Syndicate (UCLES), which is itself a department of the University of Cambridge.