

GCSE Chemistry B (Twenty First Century Science) J258/01 Breadth in Chemistry (Foundation Tier)

Question Set 6

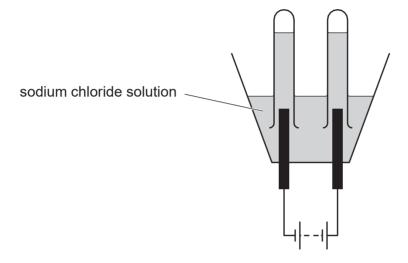
- 1 A factory electrolyses sodium chloride solution to make useful products.
 - (a) The electrolysis produces chlorine.

Complete the sentence by putting a round one word in each pair.

The **chlorine** / **chloride** ions are attracted to the **positive** / **negative** electrode, where they lose **electrons** / **protons**.

(b) Nina electrolyses a solution of sodium chloride.

She uses this apparatus.



Nina thinks that the experiment makes chlorine gas at one electrode.

She is not sure if the gas at the other electrode is hydrogen or oxygen.

Describe the tests Nina can do to identify chlorine, hydrogen and oxygen **and** the results she should expect.

[3]

[3]

Total Marks for Question Set 6: 6



OCR is committed to seeking permission to reproduce all third-party content that it uses in its assessment materials. OCR has attempted to identify and contact all copyright holders whose work is used in this paper. To avoid the issue of disclosure of answer-related information to candidates, all copyright acknowledgements are reproduced in the OCR Copyright Acknowledgements Booklet. This is produced for each series of examinations and is freely available to download from our public website (www.ocr.org.uk) after the live examination series.

If OCR has unwittingly failed to correctly acknowledge or clear any third-party content in this assessment material, OCR will be happy to correct its mistake at the earliest possible opportunity.

For queries or further information please contact The OCR Copyright Team, The Triangle Building, Shaftesbury Road, Cambridge CB2 8EA.

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