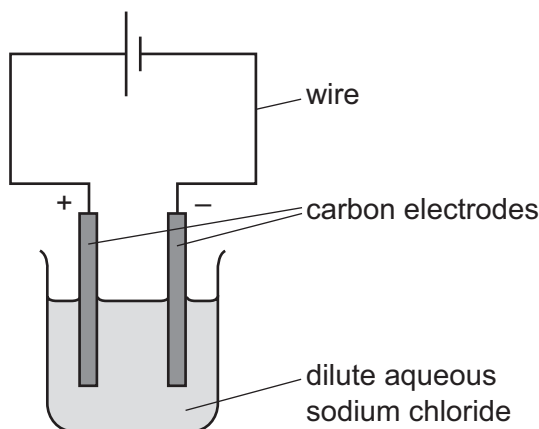


SMART EXAM RESOURCES
SUBJECT: CHEMISTRY
TOPIC: ELECTROCHEMISTRY
SET-2-QP-MS

ELECTROLYSING BRINE

1 A student carries out an electrolysis experiment using the apparatus shown.



The student repeats the experiment using concentrated aqueous sodium chloride.

(i) Describe what the student observes at:

- the cathode
- the anode.

[2]

(ii) The student added litmus to the solution after the electrolysis of concentrated aqueous sodium chloride.

State the colour seen in the solution. Give a reason for your answer.

colour of solution

reason

[2]

(b) Carbon electrodes are used because they are inert.

State another element that can be used instead of carbon.

..... [1]

MARK SCHEME:

(a)(i)	fizzing (1) green gas (1)	2
(ii)	(litmus turns) blue and alkali / base forms (1) Sodium hydroxide / NaOH (forming) (1)	2
(b)	platinum	1