



## Electrolysis of Aqueous Solutions

A student carried out an investigation to test the following hypothesis:

**Hypothesis:** A metal is always produced in the negative half-cell.

First, the student placed cells with various electrolytes in a beaker and connected two graphite electrodes connected to a power supply. When the power supply was switched on, nothing happened in the cells.

1 Explain why the experiment did not work.

The student then repeated the experiment in water.

Figure 1 shows the apparatus used for the electrolysis of sodium chloride solution. See page 14 for more information.



2 The electrodes are made of graphite. Give two reasons why graphite is a suitable material for the electrodes in the electrolysis of salt solutions.

Describe the apparatus used.

Sketch the apparatus and the reactions at each electrode.

and 3

Write and label electrode reactions.

and 4

Explain the reactions taking place.

State the colour and volume of gas produced at each electrode.

Write the formulae for the products formed in the electrolysis of sodium chloride solution.



## Electrolysis of Aqueous Solutions

A student carried out an investigation to test the hypothesis in sodium chloride.

The student placed cells with various electrolytes in a beaker and connected two graphite electrodes connected to a power supply. When the power supply was switched on, nothing happened in the cells.

1 Why did the experiment not work?

The reaction:

Electrolysis is slow and does not work straight away.  
Both electrodes should have the same material.  
The voltage of the power supply was too high.

The student then repeated the experiment in water.

Figure 1 shows the apparatus used for the electrolysis of sodium chloride solution. See page 14 for more information.



2 The electrodes are made of graphite. Why is graphite a suitable material for the electrodes in the electrolysis of salt solutions?

It is an inert material.

Graphite has a high melting point.

Graphite is a good conductor of electricity.

Graphite is cheap.

Graphite is a solid.

Describe the apparatus used.

Sketch the apparatus and the reactions at each electrode.

and 3

Write and label electrode reactions.

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# Water Aqueos Answers Test

**L Reisser**



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## **Table of Contents Water Aqueos Answers Test**

1. Understanding the eBook Water Aqueos Answers Test
  - The Rise of Digital Reading Water Aqueos Answers Test
  - Advantages of eBooks Over Traditional Books
2. Identifying Water Aqueos Answers Test
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Water Aqueos Answers Test
  - User-Friendly Interface
4. Exploring eBook Recommendations from Water Aqueos Answers Test
  - Personalized Recommendations
  - Water Aqueos Answers Test User Reviews and Ratings
  - Water Aqueos Answers Test and Bestseller Lists
5. Accessing Water Aqueos Answers Test Free and Paid eBooks
  - Water Aqueos Answers Test Public Domain eBooks
  - Water Aqueos Answers Test eBook Subscription Services
  - Water Aqueos Answers Test Budget-Friendly Options

6. Navigating Water Aqueos Answers Test eBook Formats
  - ePub, PDF, MOBI, and More
  - Water Aqueos Answers Test Compatibility with Devices
  - Water Aqueos Answers Test Enhanced eBook Features
7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Water Aqueos Answers Test
  - Highlighting and Note-Taking Water Aqueos Answers Test
  - Interactive Elements Water Aqueos Answers Test
8. Staying Engaged with Water Aqueos Answers Test
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Water Aqueos Answers Test
9. Balancing eBooks and Physical Books Water Aqueos Answers Test
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Water Aqueos Answers Test
10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
11. Cultivating a Reading Routine Water Aqueos Answers Test
  - Setting Reading Goals Water Aqueos Answers Test
  - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Water Aqueos Answers Test
  - Fact-Checking eBook Content of Water Aqueos Answers Test
  - Distinguishing Credible Sources
13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
14. Embracing eBook Trends
  - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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