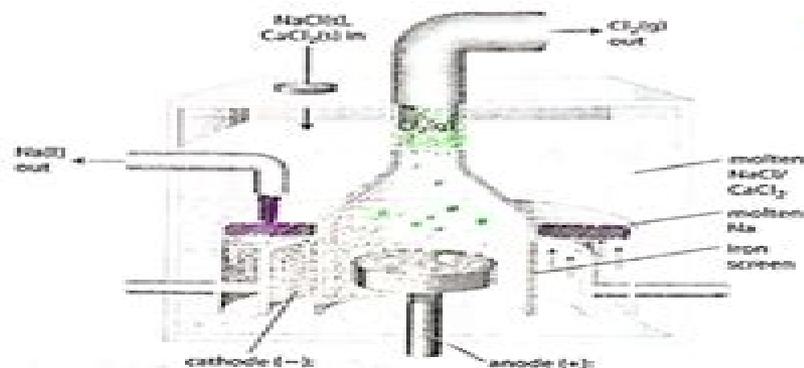


# IGCSE – HONORS – ELECTROCHEMISTRY NOTES AND STUDY GUIDE:

## Electrolysis of sodium chloride (in the industry)

Industrial electrolysis of molten Sodium Chloride requires extreme temperatures.

- Calcium Chloride is added to the mixture to lower the melting point of Sodium Chloride.
- Molten sodium metal floats in the mixture because of its low density.
- The anode is carbon
- The cathode is iron
- Chlorine gas is collected separately



3.

## 4. electrolysis of Aluminum oxide (molten)

Electrodes: graphite (carbon)

Electrolyte: molten Alumina (Al<sub>2</sub>O<sub>3</sub>)

Alumina = Purified Bauxite

Which substance is added to the molten alumina? cryolite

Ions Present: Al<sup>3+</sup>, O<sup>2-</sup>

Half equations:

In the Cathode (Al<sup>3+</sup> + 3e<sup>-</sup> → Al) × 4

In the Anode (2O<sup>2-</sup> → O<sub>2</sub> + 4e<sup>-</sup>) × 3

Overall Equation 4 Al<sup>3+</sup> + 6 O<sup>2-</sup> → 4 Al + 3 O<sub>2</sub>

Observations:

Cathode: The Molten Aluminum can be observed

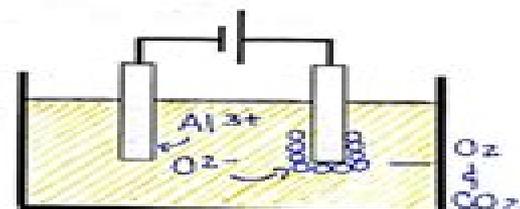
Anode: Bubbles of Oxygen gas will appear

Why is it necessary to change the electrodes periodically?

Because the anodes will burn out. Anode reacts with O<sub>2</sub> to form CO<sub>2</sub>

Which is the purpose of the cryolite?

To lower the melting point of the Aluminum Oxide



# Chemistry Electrochemistry Study Guide Answers Key

**Thirumalaisamy P.  
Velavancorresponding**



**Chemistry Electrochemistry Study Guide Answers Key:**

## Decoding **Chemistry Electrochemistry Study Guide Answers Key**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Chemistry Electrochemistry Study Guide Answers Key**," a mesmerizing literary creation penned by way of a celebrated wordsmith, readers set about an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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