

Chemistry - Chapter 9: Electrolysis Cheat Sheet by Autumn (Autumn) via cheatography.com/145676/cs/32053/

Electrolysis Basics

Electrolysis: Non-spontaneous reaction converting electrical energy into chemical

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Anode: Positive (+) Cathode: Negative (-)

Anode still oxidides Cathode still reduces

Faraday's Law

1st Electrolysis Law

Amount of substance made/used is directly proportional to electrical charge through cell

2nd Electrolysis Law

To make 1 mole of a substance, electrons must be consumed (dependent on substance's charge)

Electrolytes				
Aqueous Solution	Molten Electrolyte			
Assume H₂O is also present	Pure substance			
	No H₂O present			

Electrochemical Series

Strongest oxidant at cathode reacts with strongest reductant at anode

ractions may occur if other substances are present

Shape

⟨¬'Z' - shaped on series

Associated Formulas

Electrical Charge Formula

Q = I x t

Mole No. Of Electrons Formula

 $n(e^{-}) = Q \div F$

Mole Ratio

Unknown ÷ Known

Molar Formula

 $n = m \div M_r$



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