## Cheatography

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

Electrolysis Basics		Electrochemical Series	
Electrolysis: Non-spontaneous reaction converting electrical energy into chemical		Strongest oxidant at cathode reacts with strongest reductant at anode	
		C Unwanted reactions may occur if other substances are present	
Electrode Charges			
Anode: Positive (+)	Cathode: Negative (-)	Shape	
		ピラ 'Z' - shaped on series	
🖒 Anode still oxidides	🖒 Cathode still reduces	C Flatter 'Z' for stronger reaction	
Faraday's Law		Associated Formulas	
1st Electrolysis Law		Electrical Charge Formula	
$ m \roldsymbol{C}$ Amount of substance made/used is directly proportional to		Q = I x t	
electrical charge through cell			
		Mole No. Of Electrons Formula	
2nd Electrolysis Law		n(e⁻) = Q ÷ F	
C To make 1 mole of a substanc			
(dependent on substance's charge)		Mole Ratio	
Electrolytes		Unknown ÷ Known	
Aqueous Solution	Molten Electrolyte		
	Pure substance	Molar Formula	
C Assume H₂O is also present	-	$n = m \div M_r$	
௴ H₂O may 'interfere' with reaction	n টে No H₂O present		
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