

# Chapter 17 — Electrochemistry

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- Electrochemistry — The transfer of electrons (oxidation-reduction). Separate the oxidation from reduction and get flow of electrons.
- Oxidation — Loss of electrons (e.g.  $\text{Zn} \longrightarrow \text{Zn}^{2+} + 2\text{e}^-$ ), called the anode
- Reduction — Gain of electrons (e.g.  $\text{Cu}^{2+} + 2\text{e}^- \longrightarrow \text{Cu}$ ), called the cathode
- Electrode loses mass, while plating gains mass
- Salt Bridge — Allows ions to flow to balance charge