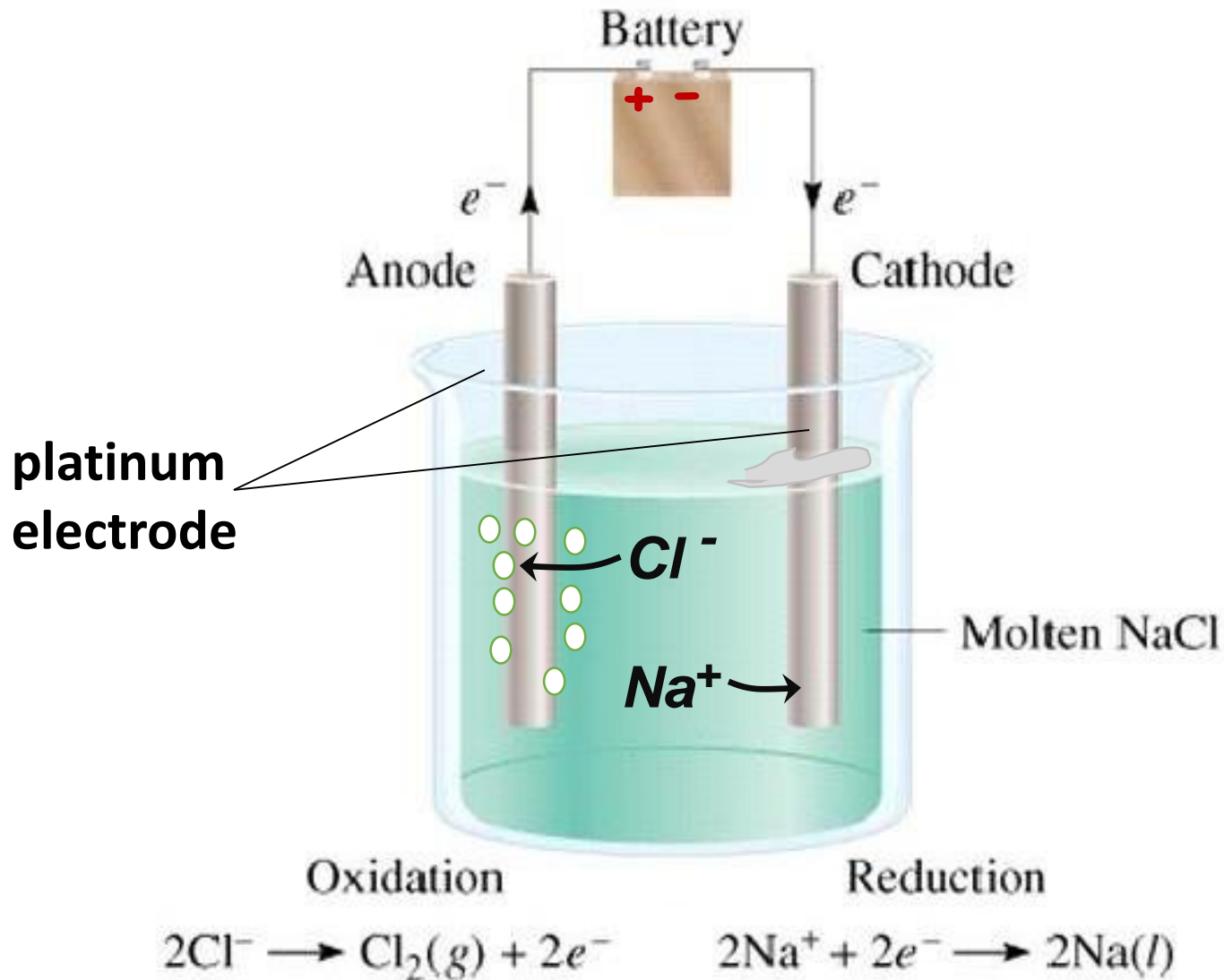


ELECTROLYSIS OF MOLTEN SALT

MOLTEN SODIUM CHLORIDE



- Ions in the molten NaCl = Na⁺, Cl⁻
- There is **no competition among the ions** in the molten NaCl to undergo reduction or oxidation.
- Na⁺ ions will be discharged at cathode and Cl⁻ ions discharged at anode.



- A pale green gas, Cl₂ is liberated at **anode**.
- Molten, silvery white metallic sodium, Na forms at **cathode** and floats on top of the molten sodium chloride.
- The **metal** remains as **liquid** because its melting point is only **97.8 °C**.