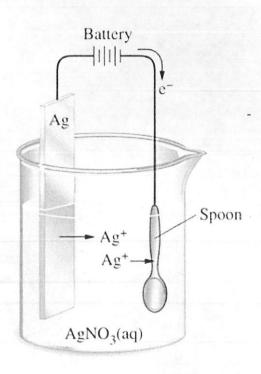
Ch. 20 Section 20.9 Electrolytic Cell (Electrolysis) Quantitative Aspect

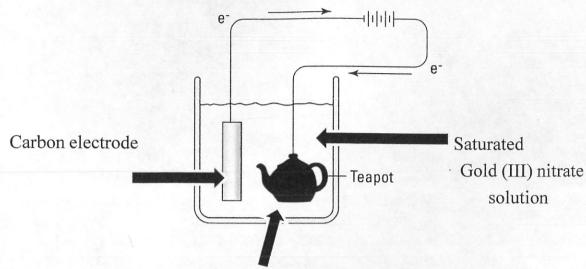
The External source of energy is the "battery" Gibbs Free Energy (G) < 0 Voltage (E) > 0 K>>)

The Electrolytic Cell: The silver plating of the spoon with silver metal

- 1. Gibbs Free Energy (G) > 0 ... supplied from the battery
- 2. Oxidation and reduction processes are forced



(#1) How much silver metal will be deposited on the tin spoon in 2 hours with a 5 amp current from the battery? (Silver at . wt. = 108)



teapot made of a base metal tin

How long (hours) will it take for 1600 milligrams of gold to be plated on the teapot with a current flow of 1.5 amps? (At wt of gold = 197)