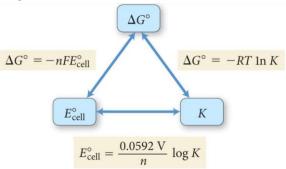
N45



In all electrochemical cells, oxidation occurs at the anode, reduction occurs at the cathode.

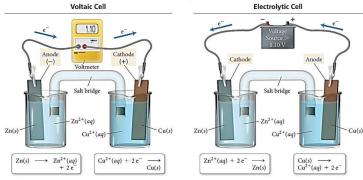
In voltaic cells

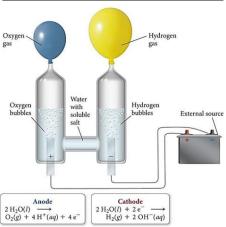
- Anode is the source of electrons and has a (-) charge.
- · Cathode draws electrons and has a (+) charge.

In electrolytic cells

- · Electrons are drawn off the anode, so it must have a place to release the electrons—the positive terminal of the battery.
- Electrons are forced toward the anode, so it must have a source of electrons the negative terminal of the battery.

Voltaic versus Electrolytic Cells



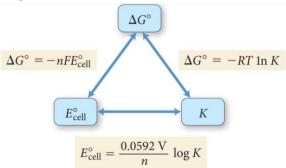


Electrolysis of Water



- 1. Solution of the plating metal
- 2. Anode made of the plating metal
- 3. Cathode with the object to be plated
- 4. Source of current

N45



In all electrochemical cells, oxidation occurs at the anode, reduction occurs at the cathode.

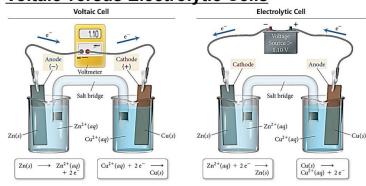
In voltaic cells

- Anode is the source of electrons and has a (-) charge.
- · Cathode draws electrons and has a (+) charge.

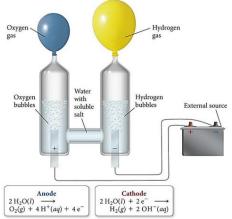
In electrolytic cells

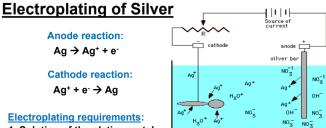
- · Electrons are drawn off the anode, so it must have a place to release the electrons—the positive terminal of the battery.
- · Electrons are forced toward the anode, so it must have a source of electrons the negative terminal of the battery.











- 1. Solution of the plating metal
- 2. Anode made of the plating metal
- 3. Cathode with the object to be plated
- 4. Source of current