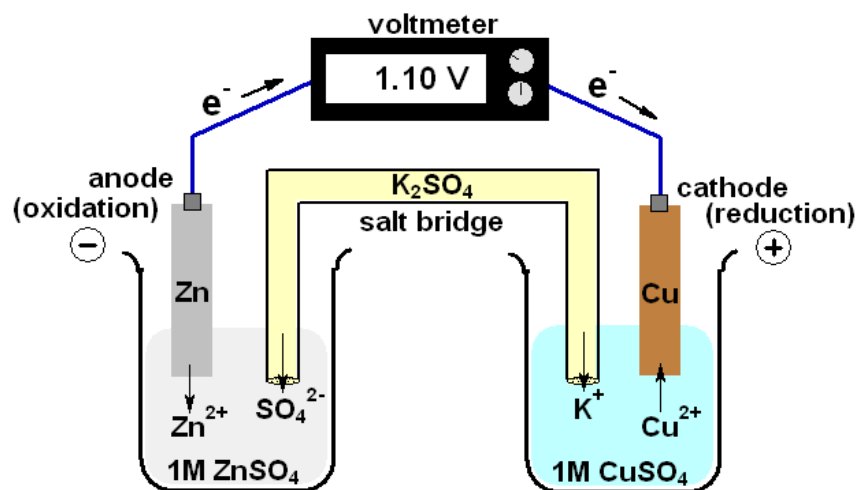
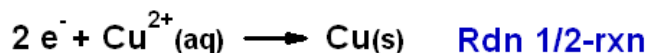
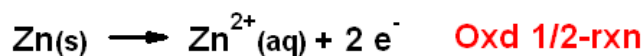
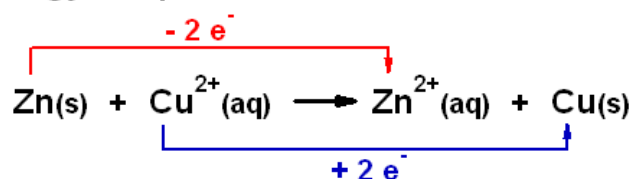


**Voltaic Cell:** also called an electrochemical cell or battery is a device for harnessing the energy of spontaneous redox reactions.



#### Standard Reduction Potentials

Reduction 1/2-Reaction	E <sup>0</sup> (volts)
F <sub>2</sub> + 2e <sup>-</sup> → 2F <sup>-</sup>	+ 2.87
Cl <sub>2</sub> + 2e <sup>-</sup> → 2Cl <sup>-</sup>	+ 1.36
Ag <sup>+</sup> + e <sup>-</sup> → Ag	+ 0.80
O <sub>2</sub> + 2H <sub>2</sub> O + 4e <sup>-</sup> → 4OH <sup>-</sup>	+ 0.40
Cu <sup>2+</sup> + 2e <sup>-</sup> → Cu	+ 0.34
2H <sup>+</sup> + 2e <sup>-</sup> → H <sub>2</sub>	+ 0.00
Ni <sup>2+</sup> + 2e <sup>-</sup> → Ni	- 0.25
Zn <sup>2+</sup> + 2e <sup>-</sup> → Zn	- 0.76