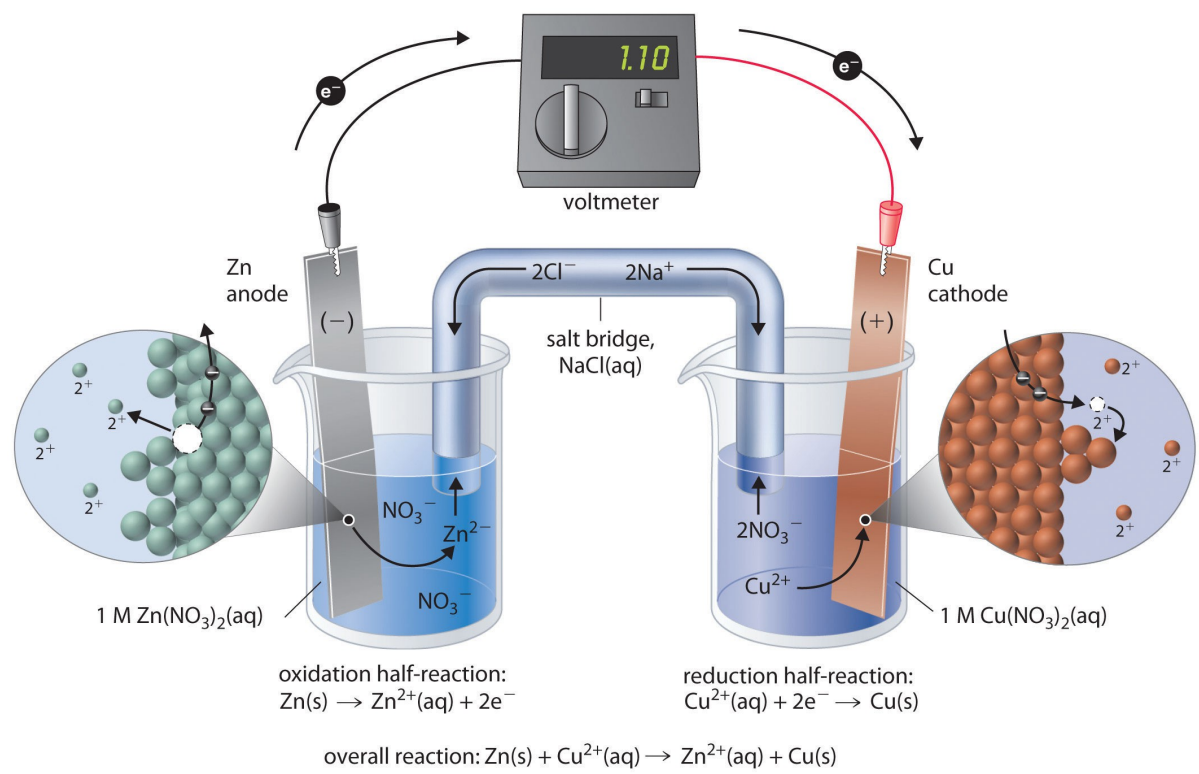


Ch. 19- Electrochemistry (and a little REDOX review from Ch. 4)– This content looks scarier than it actually is. That is why I am giving you movies notes to do more than practice problems like normal.

FP- “For Practice”- found within the chapter (FMP is for more practice), **CC-** “Conceptual Connection” – found within the Chapter, **SAQ-** Self-Assessment Quiz, numbered questions (with no acronym) are exercises at the end of the chapter. **Complete all parts to each question unless otherwise specified.**

Always answer and explain/show work- see selected SAQ and CC questions

Topics	Video Title	Video Link	Length	Problems	Pages
Redox Reactions, oxidation, reduction	Redox Reactions: Crash Course Chemistry #10 This video has some HILARIOUS jokes	https://www.youtube.com/watch?v=lQ6FBA1HM3s	7:30 – watch only first 7:30	1. While watching the video, write down 1 sentence for: a. Why their names are confusing b. A tip/mnemonic from Hank (host) for keeping them straight. 2. Show work for assigning oxidation numbers to elements in sulfate (video) 3. FP 4.17, FP 4.18, CC 4.10	175-179
Half-reaction method of balancing,	Redox reactions (first part repeats the previous video, but the last part will help you with Ch. 19)	http://www.bozemanscience.com/ap-chem-031-redox-reactions	11:40	37 (a and b only)-p.931	889-892 *skip part about balancing in basic solutions
Galvanic cells, electrolytic cells, half-cell, electrode, amperes, volt, anode, cathode, salt bridge	Introduction to Electrochemistry	https://www.youtube.com/watch?v=teTkvUtW4SA	16:37	1. Create a T-Chart and take 5 notes about galvanic cells and 5 notes about electrolytic cells while watching the movie 2. CC 19.1, SAQ #4	893-897
Galvanic Cell in Motion	Animation of Cell	https://www.youtube.com/watch?v=C26pH8kC_Wk	2:07	Watch animation and then explain why the Zn and Cu electrodes in the picture below (pieces of metal on the right) have gained/lost mass. Your explanation needs to be 3 sentences long and have information about what is occurring at the atomic level AND contain reference to the law of conservation of mass.	898-917



(a)

(b)

Electrolysis	Electrolysis	https://www.youtube.com/watch?v=dRtSjJCKkIo	15:50* stop at 15:50	Take notes during this video like you would take notes during a class lecture (draw pictures, write equations, etc; it should be at least a page) FR19.8, CC19.7, 73,87,89	905-926
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