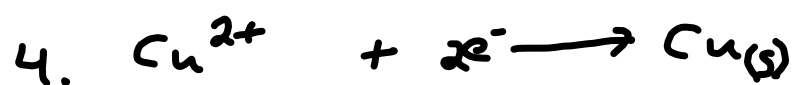


Metal Activity Series - Simulation

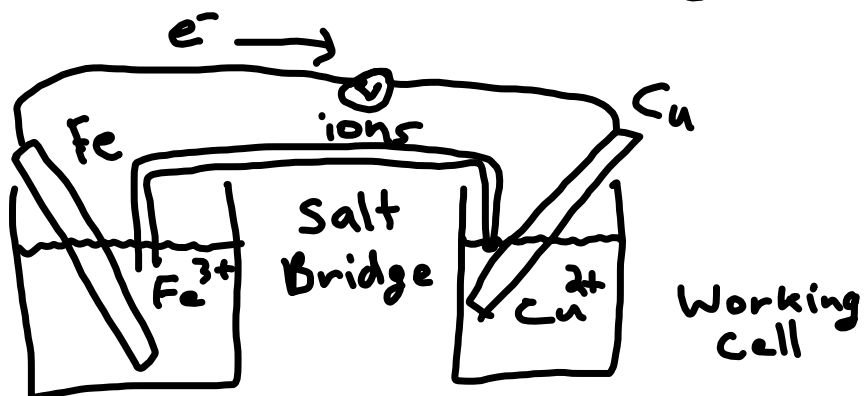
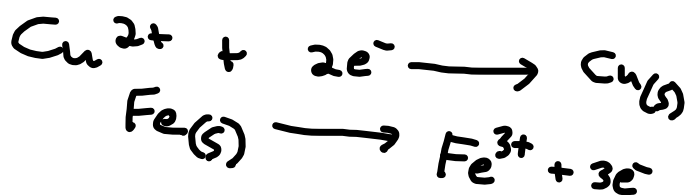


7.

	Metal	Metal ion
most react.	Mg	Ag^{+}
↑	Zn	Cu^{2+}
	Cu	Zn^{2+}
	Ag	Mg^{2+}
		Least reactive

Text p. 718 Similar list + order

Electrochemical Cells



Read text - 756-760

Drawing Working Electrochemical Cells

Predicting Voltage

Requirements - draw, volts, electron flow, salt br., metals + solutions, anode, cathode

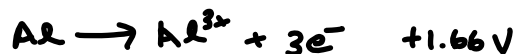
Example - Working cell $\text{Cu}/\text{Cu}^{2+} // \text{Al}^{3+} / \text{Al}$

Use Standard reduction table - p. 848



Need to reverse one half reaction

Reverse Al half reaction to achieve an overall positive voltage



Questions p. 773

8, 5, 7

↑
1.54 V