

$$(14) \quad \Delta G = \Delta H - T\Delta S$$

$$S_{\text{pont}} \ominus = 137 - T(0.120)$$

HIGH T \Rightarrow $\ominus \Delta S$
spont

Mar 23-8:12 AM

ΔS Randomness

* $\oplus \Delta S \Rightarrow$ Messy Spont

$\ominus \Delta S \Rightarrow$ Clean

Now Spont !!

Mar 23-8:57 AM

$$\textcircled{1} \Delta G^\circ = [77 + 2(-497)] - (-943)$$

$$\Delta G^\circ = -26 \text{ kJ}$$

(21)

$$\textcircled{2} \Delta G^\circ = -RT \ln K$$

$$26 = -(8.314 \times 10^{-3})(298) \ln K$$

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$$\textcircled{20} \Delta G = \Delta H - T\Delta S$$

$$0 = \Delta H - T\Delta S$$

$$\Delta H = T\Delta S$$

$$T = \frac{\Delta H}{\Delta S} \text{ ? part.}$$

$$T = \frac{-151}{0.101}$$

$$T = 1495 \text{ K}$$

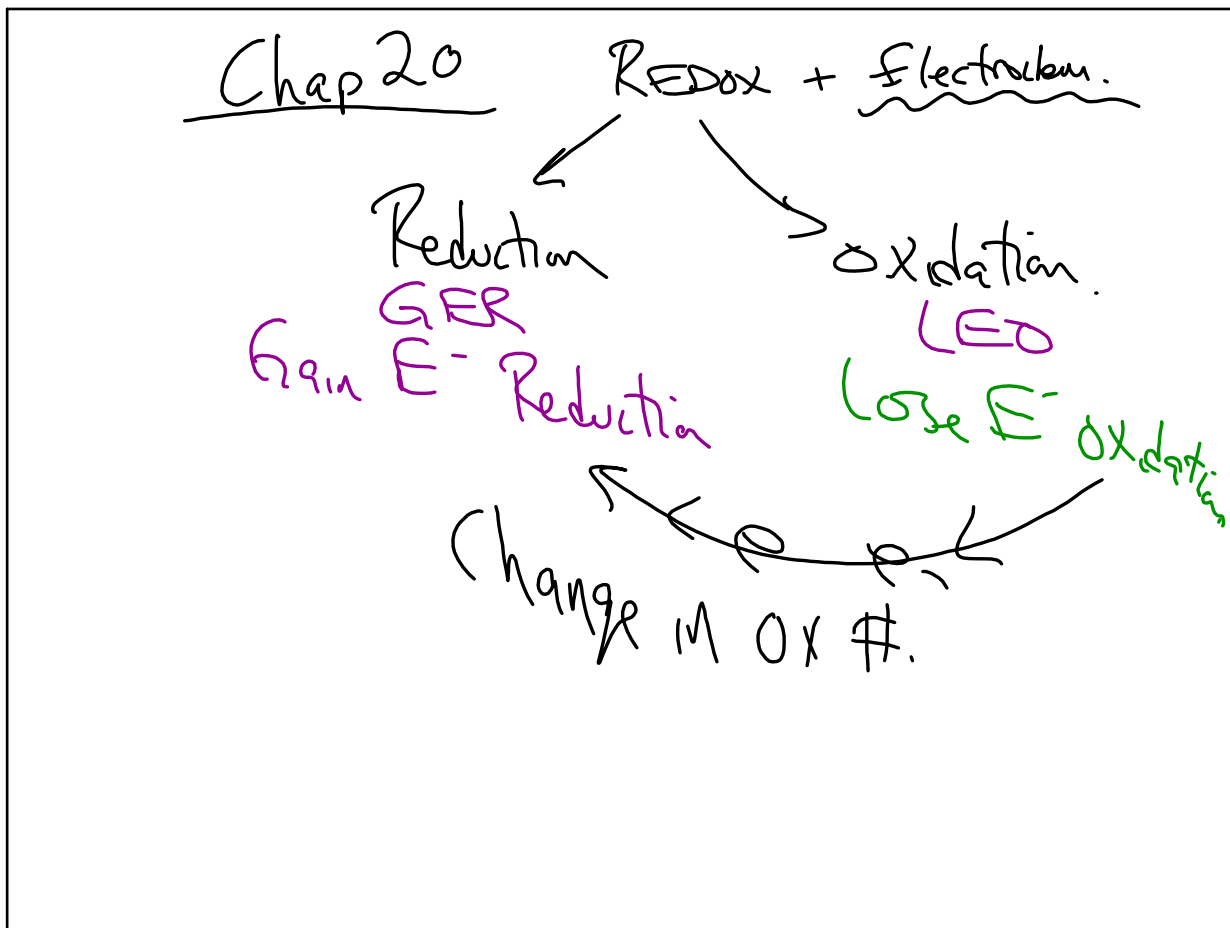
$$\Delta G = \Delta H - T\Delta S$$

$$-121 = -151 - 298(\Delta S)$$

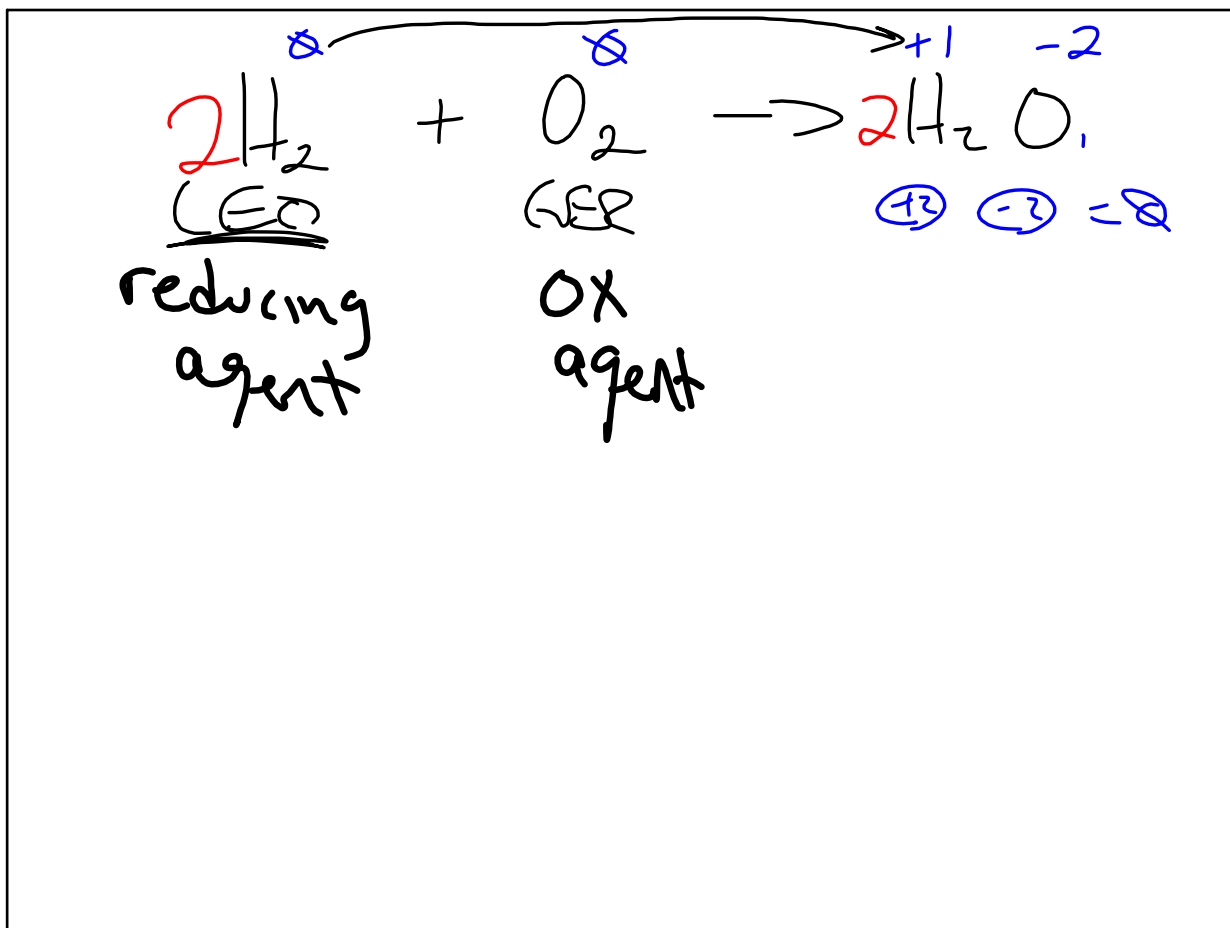
$$\Delta S = 0.101 \text{ kJ}$$

(10/5)

Mar 23-9:02 AM



Mar 23-9:10 AM



Mar 23-9:13 AM

HW PS 19-2

Mar 23-9:17 AM