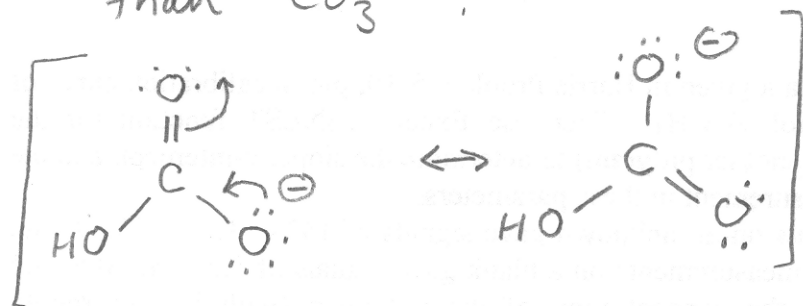


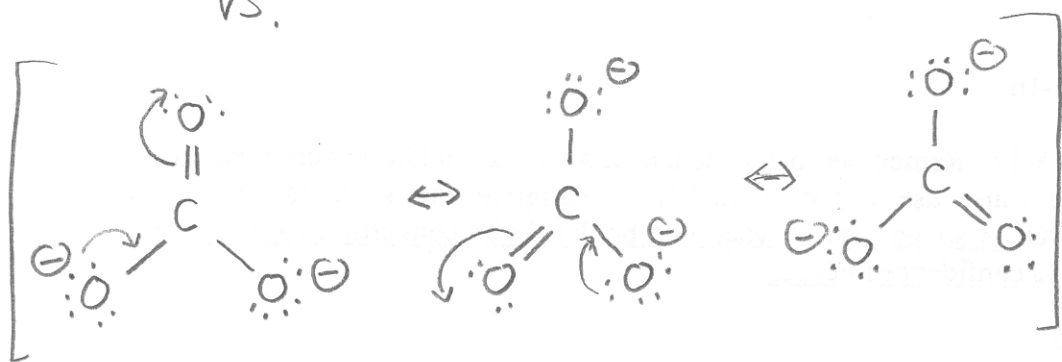
↑—————↑
why such a large difference?

- ① Much less energy required to remove a H^+ from a neutral (H_2CO_3) than a negatively-charged (HCO_3^-) species
- ② HCO_3^- is a more stable structure than CO_3^{2-} :



In HCO_3^- , 1 negative charge is shared by 2 O's
($-\frac{1}{2}$ per O)

vs.



In CO_3^{2-} , 2 negative charges are shared by 3 O's
($-\frac{2}{3}$ per O)

Extra electrons in anions repel the other electrons present, so the more delocalized this extra charge is, the lower the energy.