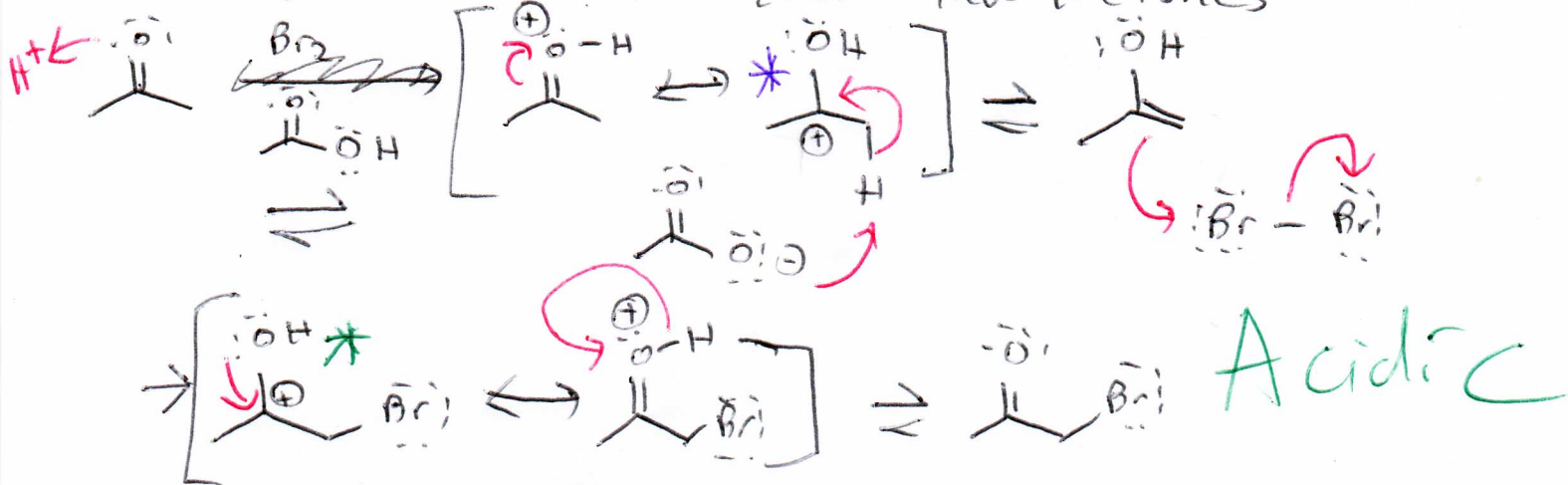
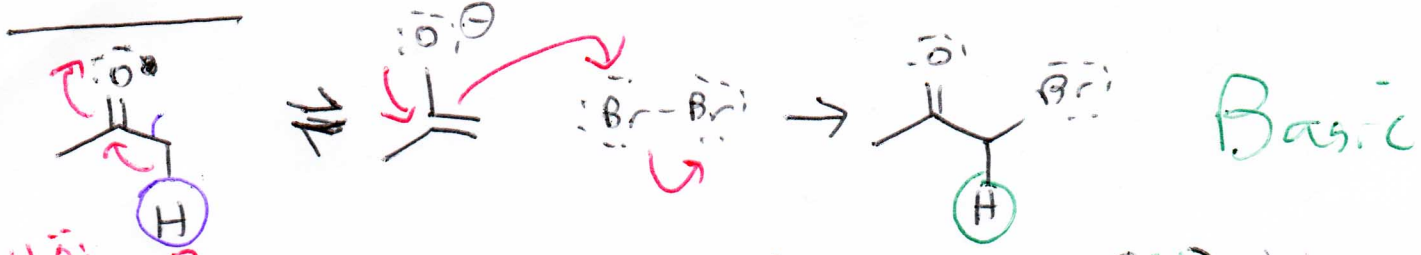


4/23/12

α -halogenation of aldehydes and ketones



After bromination (*), the resulting carbocation is less favorable than the initial carbocation (*). Because of the difference in stabilities of the carbocations, an enol does not form a second time, so halogenation only occurs once.



After bromination, the α -proton (H) is more acidic than the original α -proton (H) due to induction (the - charge is stabilized by ~~the~~ electron density being pulled away by the halogen).

