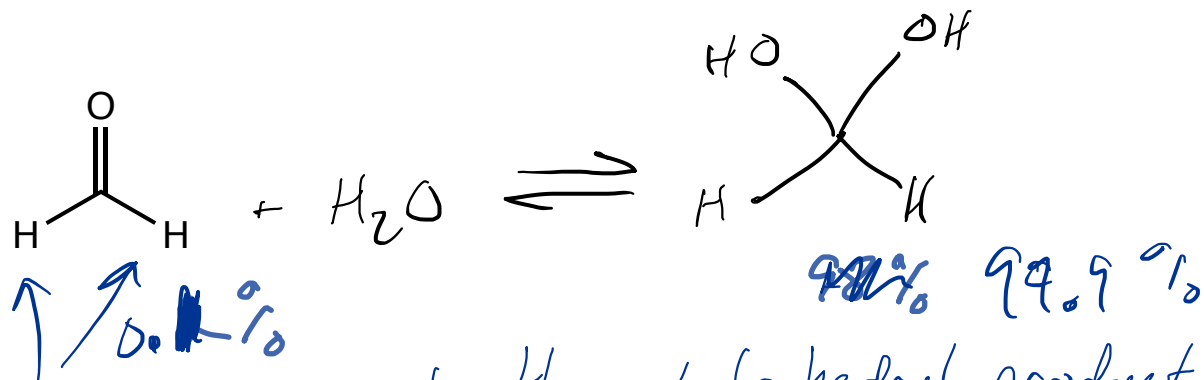
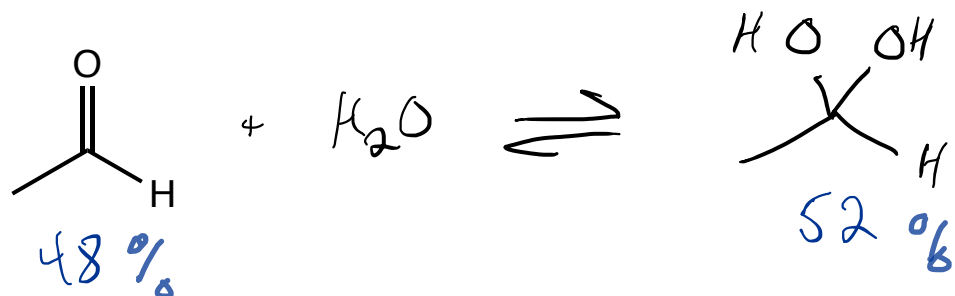
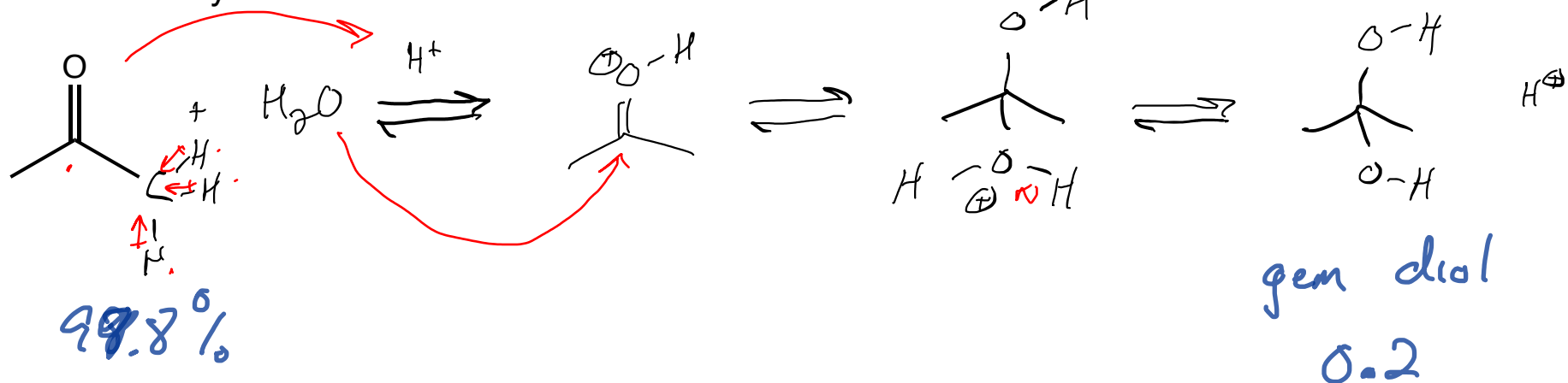


Reactions of aldehydes and ketones with HOH

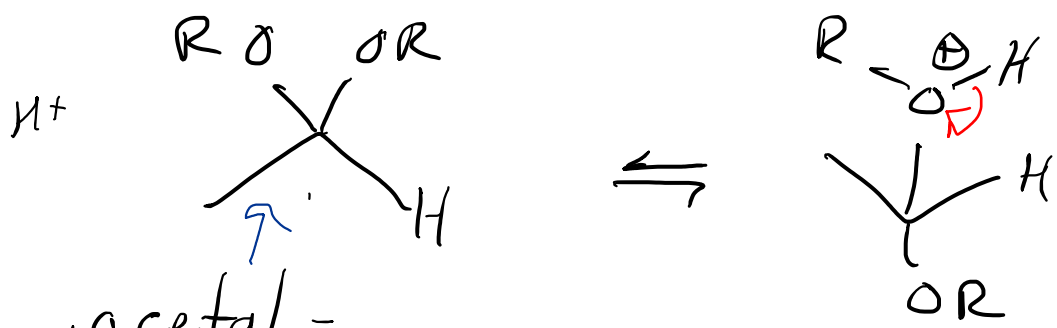
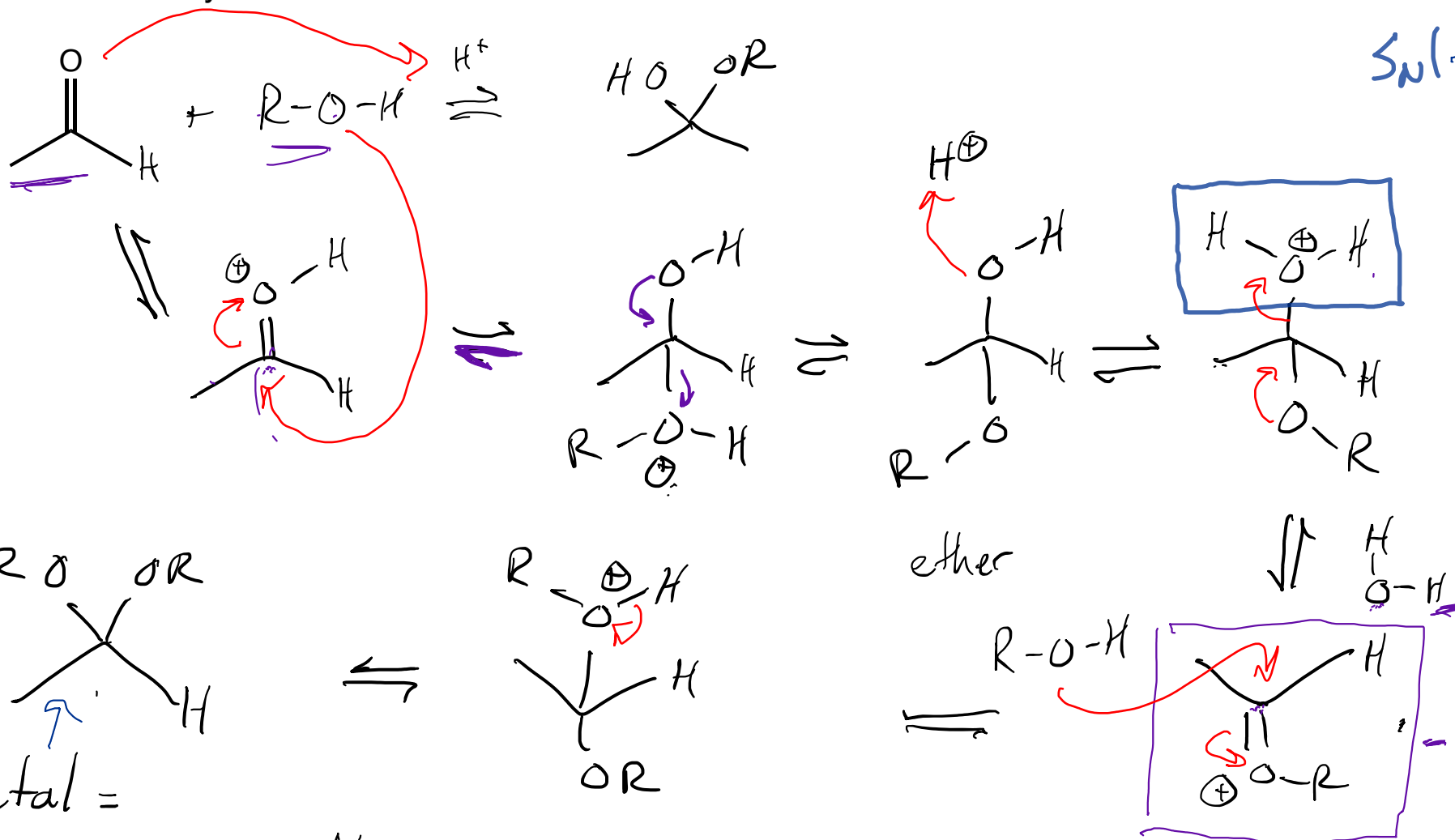


small atoms - make the tetrahedral product less crowded
 not e^- donating like CH_3 's - so $\text{C}=\text{O}$ is more reactive toward nucleophiles

Reactions of aldehydes and ketones with ROH

Section 16.9

Sol-like

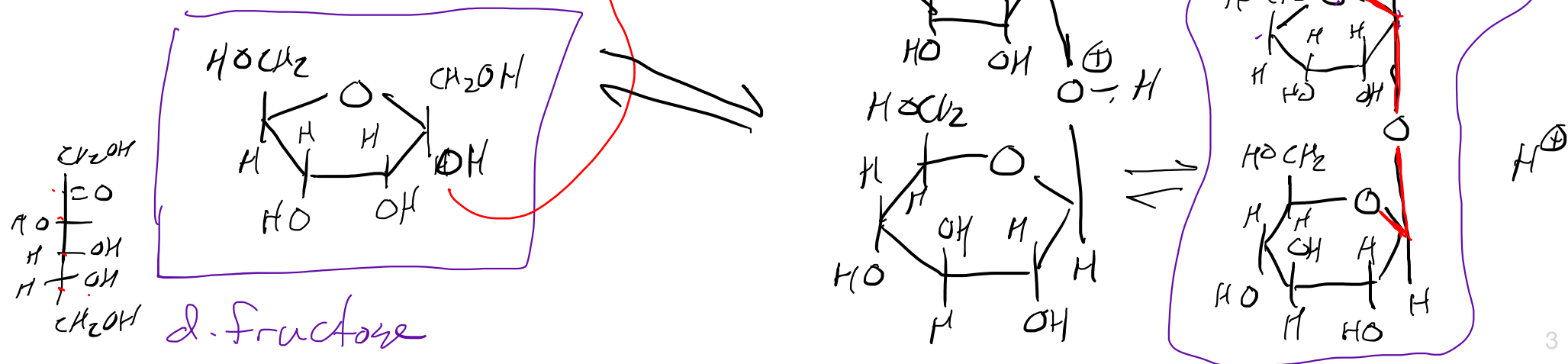
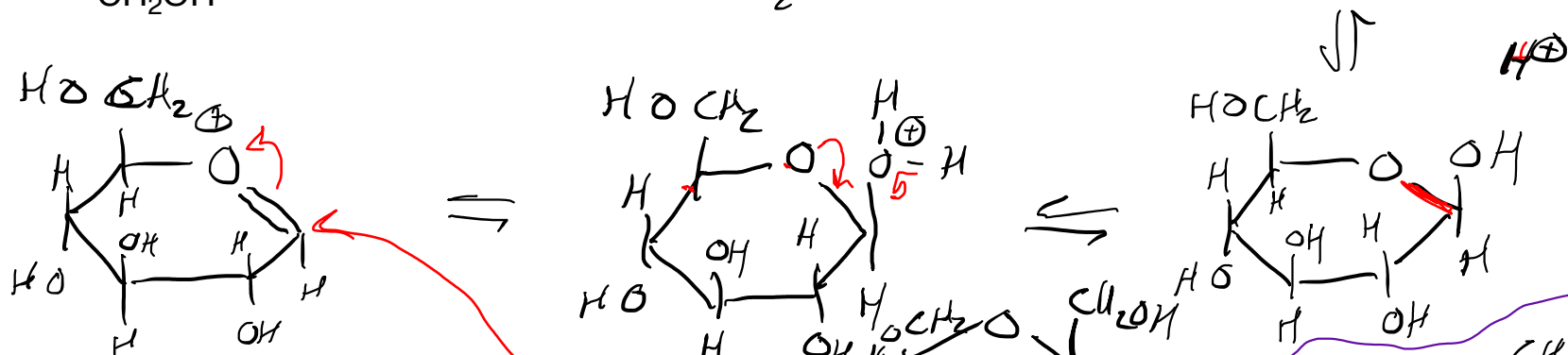
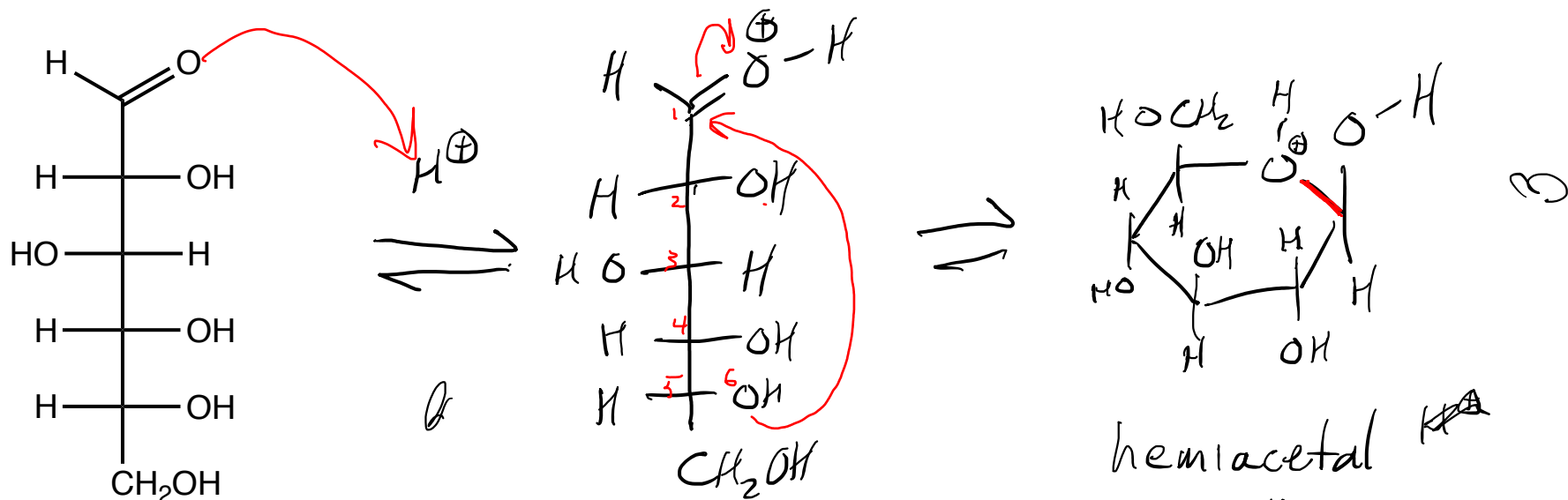


acetal = two ethers on the same C atom along with an H

ketal = two ethers on the same C atom with no H's

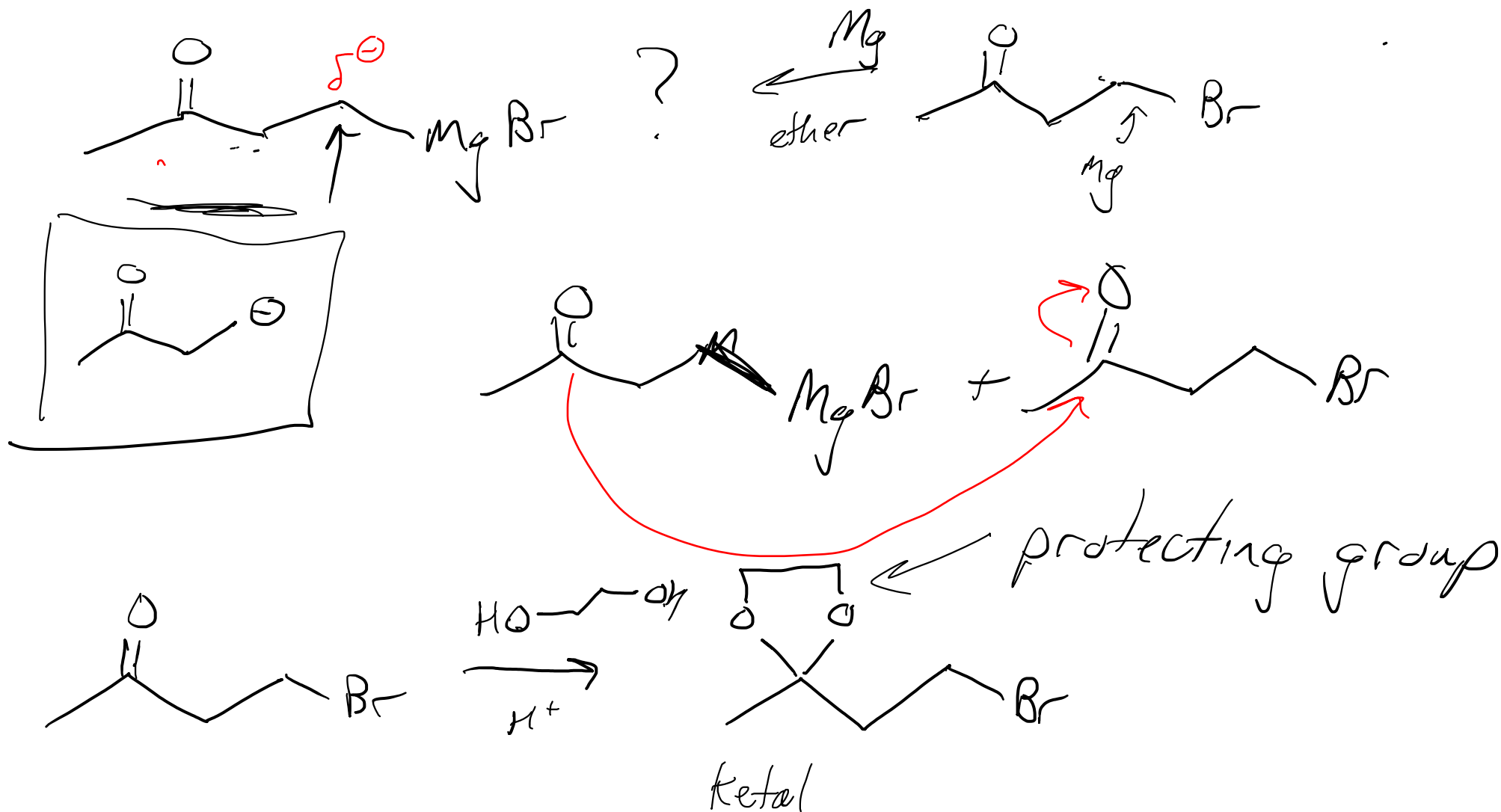


I'm a biologist, why should I care?



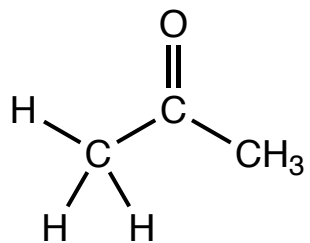
How might a chemist use this reaction

Section 16.10



The Acidic α -Hydrogen

Section 17.1



vs

