

Notes: Clean up lockers by MONDAY at noon:

- Empty Vials into waste containers
- Rinse vials with acetone into solvent waste
- Remove labels ONLY if they come off easily
- Put vials into boxes in hood
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Group Projects!

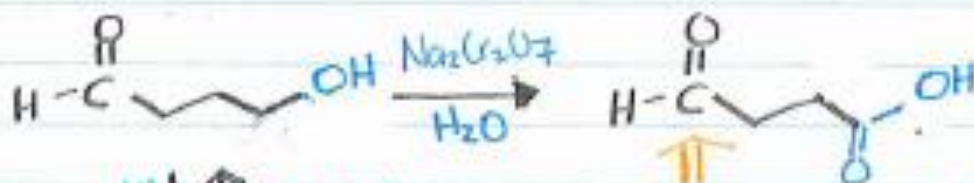
Protecting Groups (aka protective groups)

- Sometimes need to do reaction on one group in presence of another group that would also react, or will interfere in reaction

- need to protect that other group first

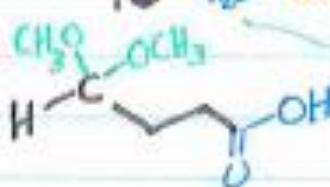
↳ introduce group that is easily added in high yielding reaction, then easily removed when no longer needed.

e.g.



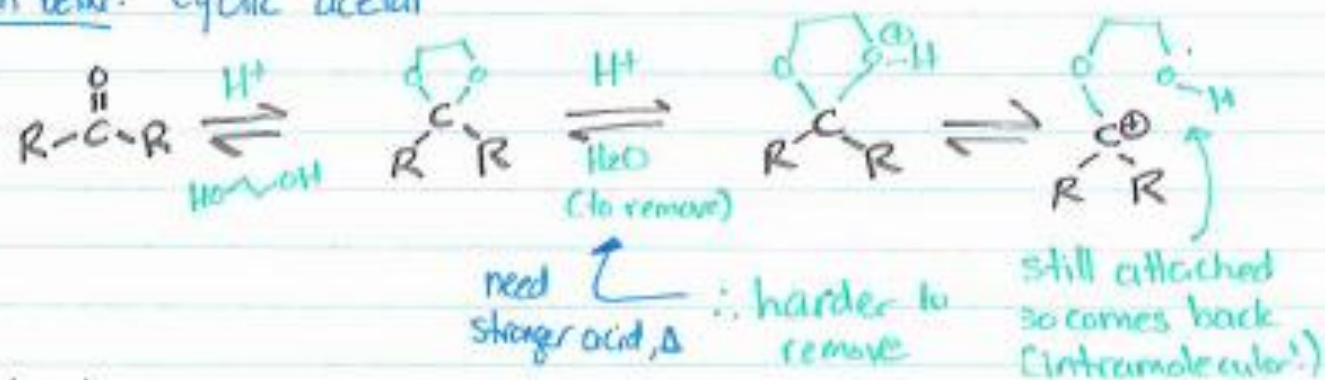
$\text{H}^+ \downarrow \uparrow \text{CH}_3\text{OH}$ (7 easy steps!)

problem → aldehyde gets oxidized too!

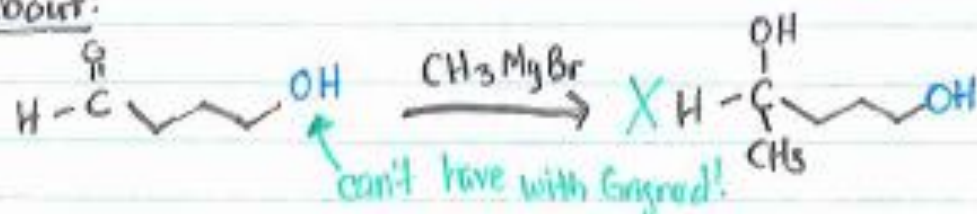


7 easy backwards!

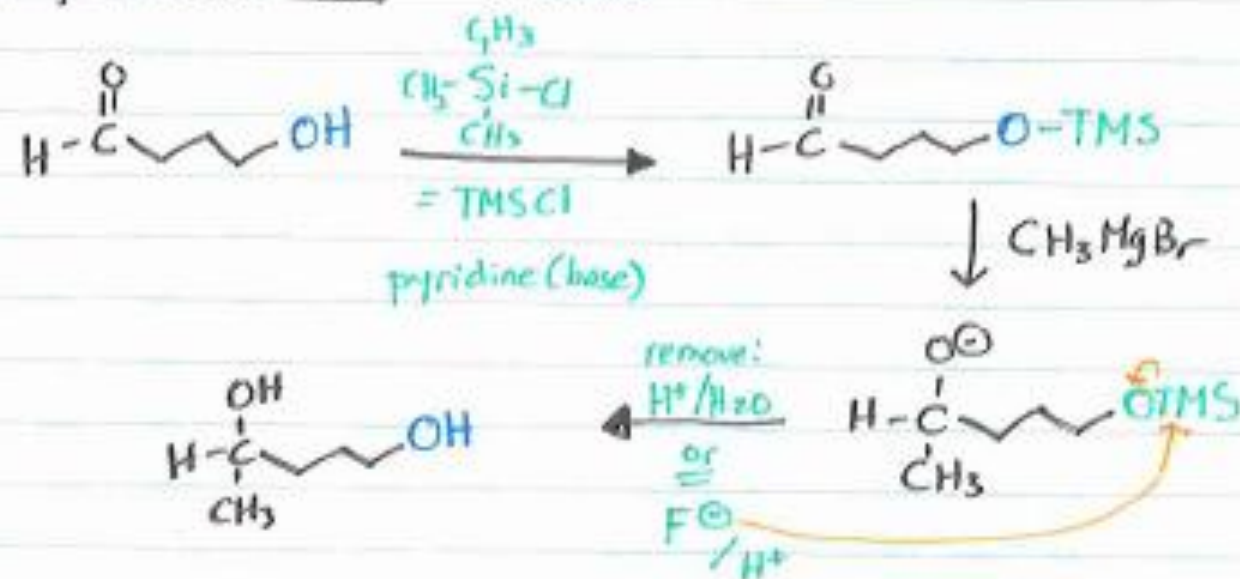
Even better: cyclic acetal



How about:



To protect OH - silanes



- Bulkier silanes harder to remove
e.g. Et_3SiCl , $t\text{-BuMe}_2\text{SiCl}$

Greene's Protective groups in Organic Synthesis
→ handout for more examples