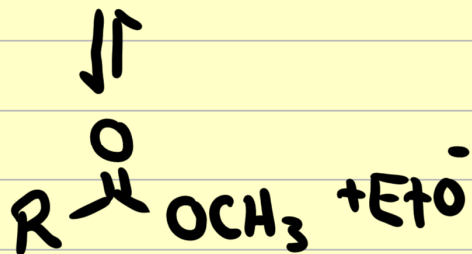
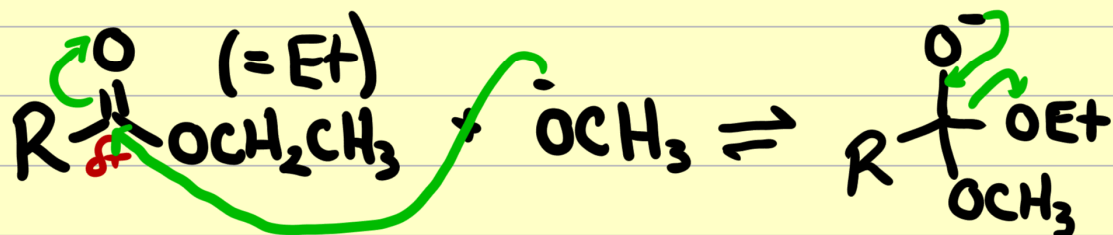
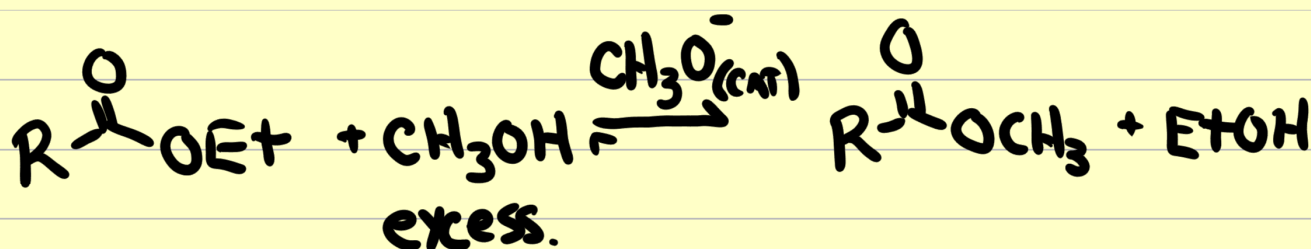


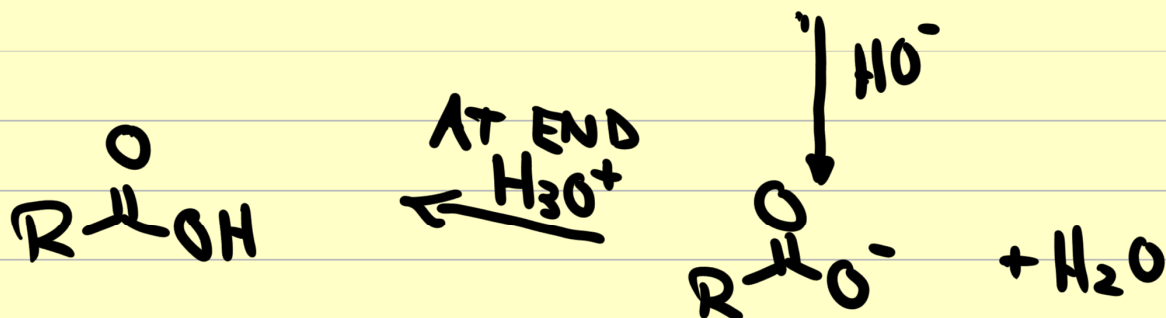
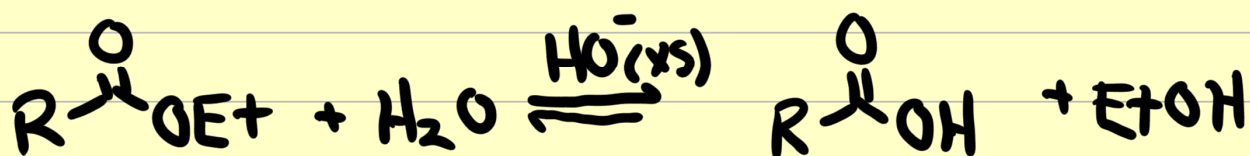
OXYGEN NUCLEOPHILES.



TRANSESTERIFICATION



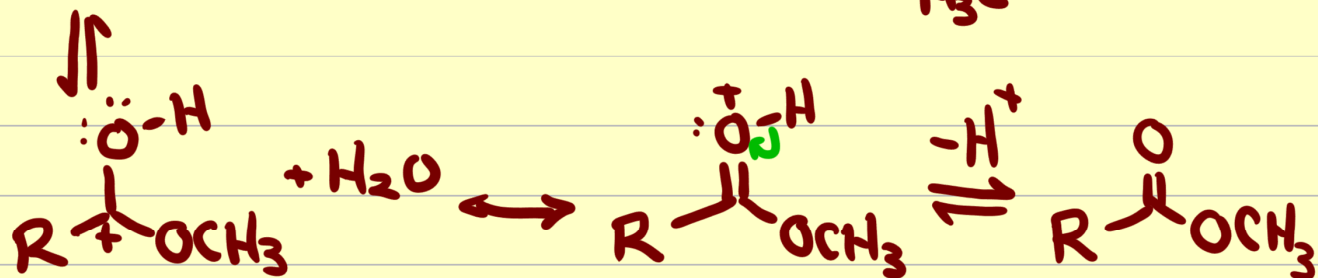
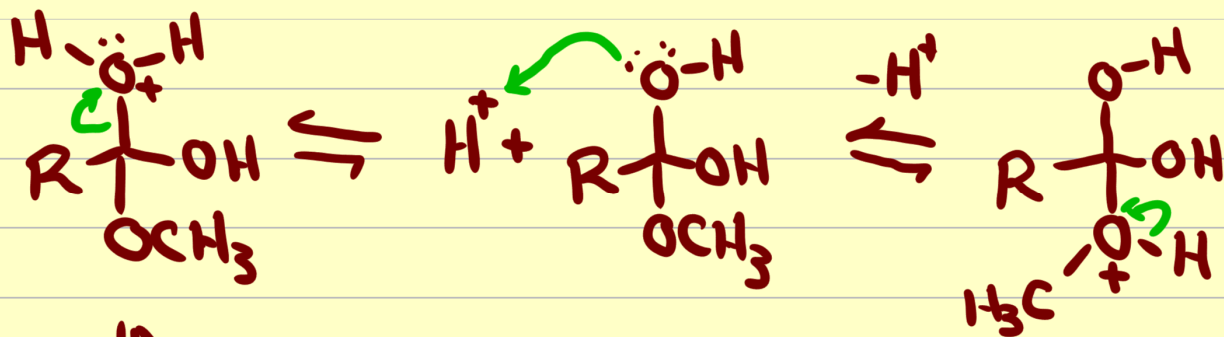
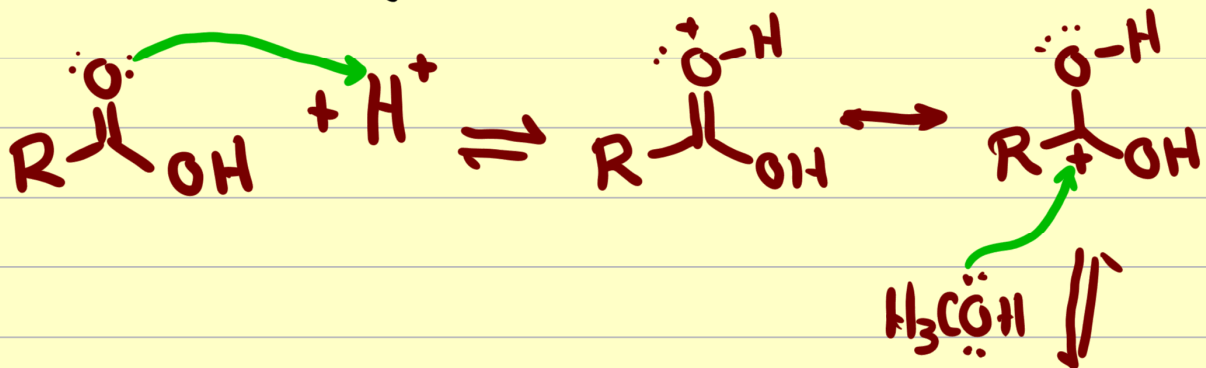
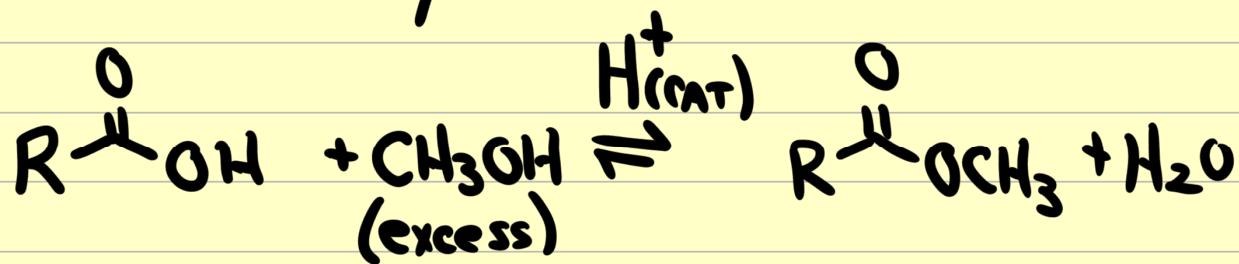
- CAN MAKE AMIDES THIS WAY TOO.
- ESPECIALLY GOOD FOR MAKING ACIDS.



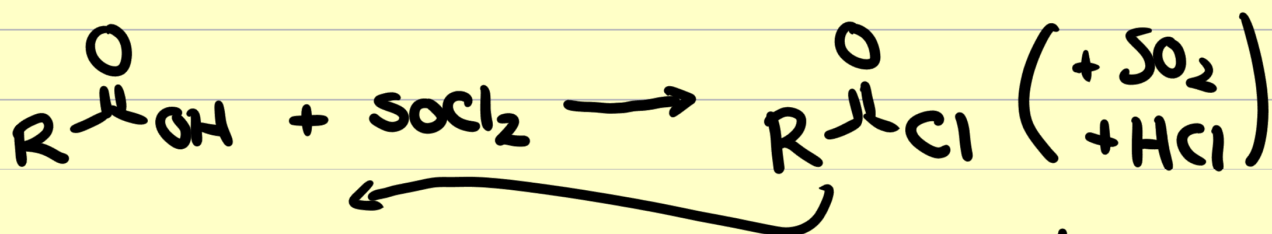
DRIVES RXN TO COMPLETION.

REACTIONS OF ACIDS.

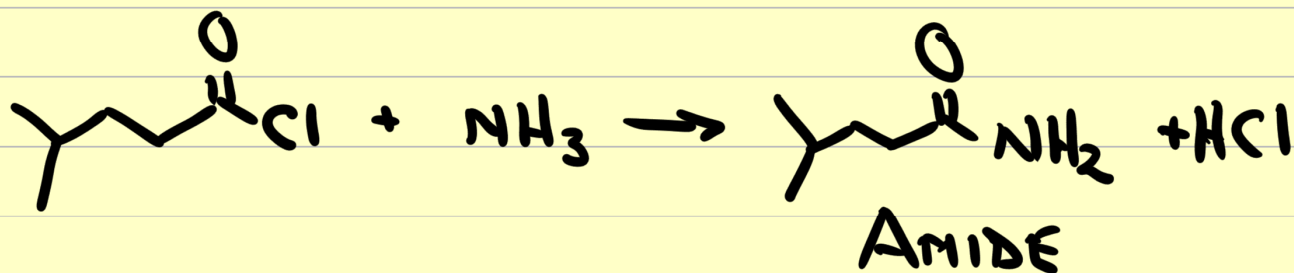
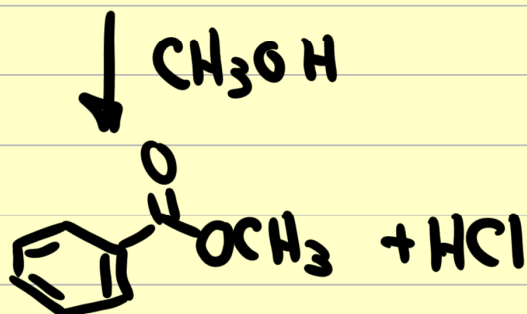
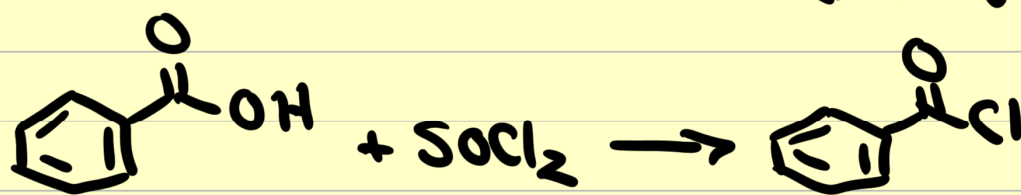
1) INSTEAD OF USING A BASE CATALYST; USE AN ACID CATALYST



2) USE ACID CHLORIDES OR ANHYDRIDES

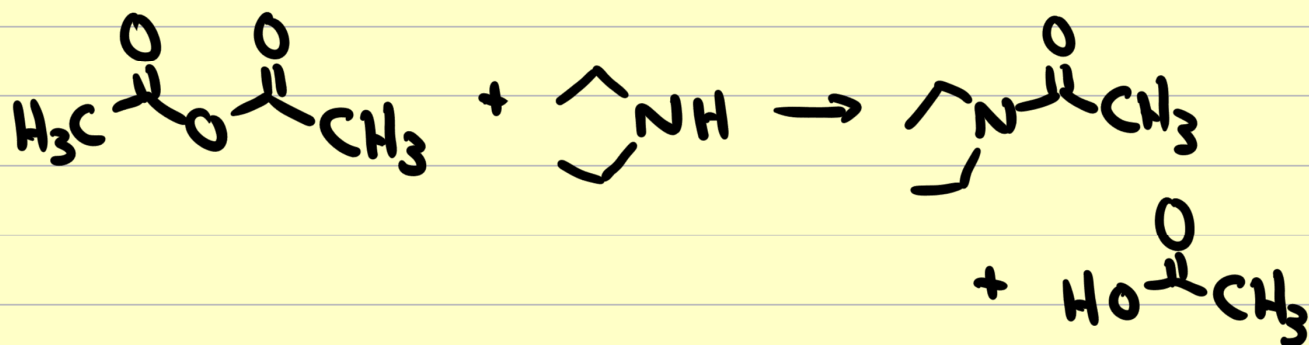
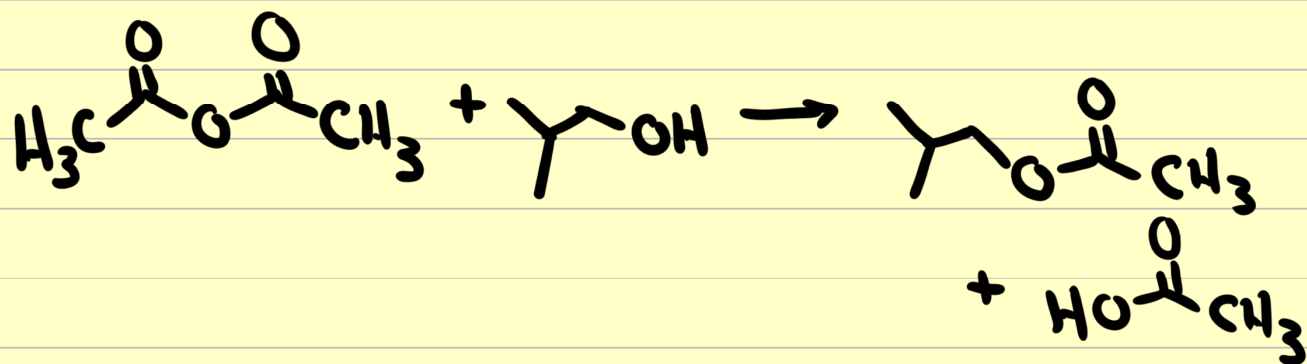


←
VERY REACTIVE - Cl^- IS A V. GOOD LEAVING GROUP

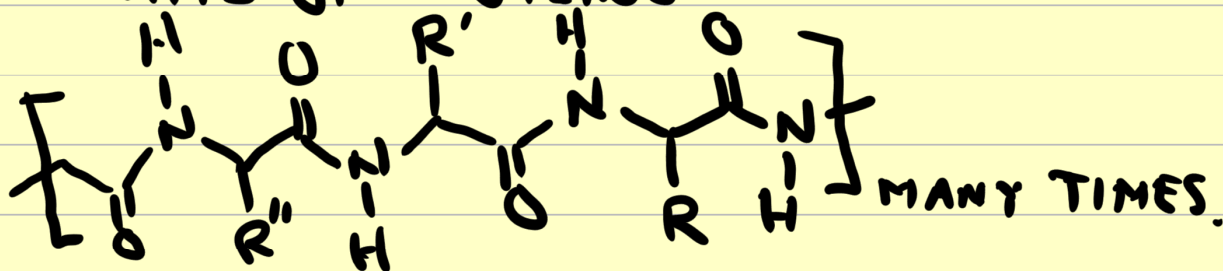


ANHYDRIDES CAN ALSO BE USED.

- JUST NOT QUITE AS REACTIVE



ASIDE - AMIDES ARE THE REPEATING UNITS OF PROTEINS



- SIMILAR TO ESTERS, JUST LESS EASY TO GET TO REACT.

THE END.