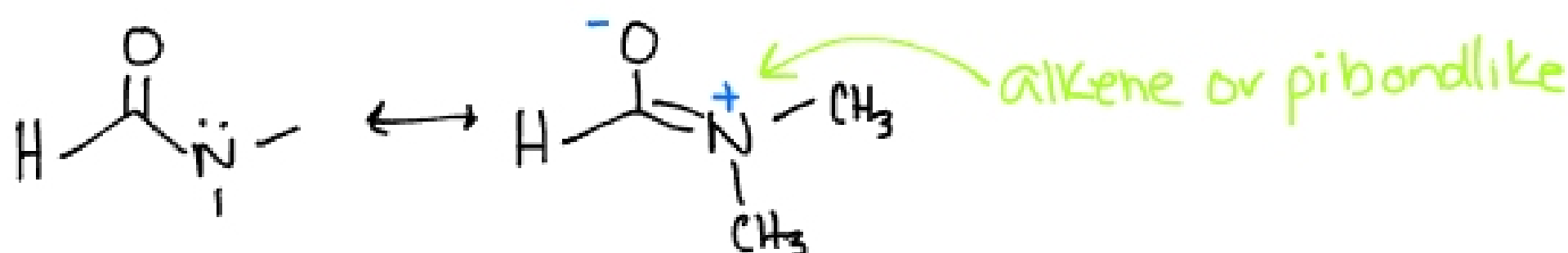
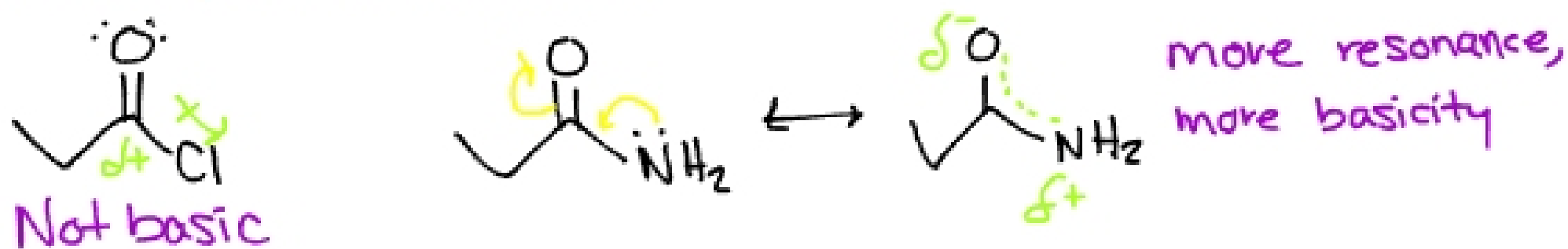


3. Resonance forms

A. More resonance, more stability, harder rxn

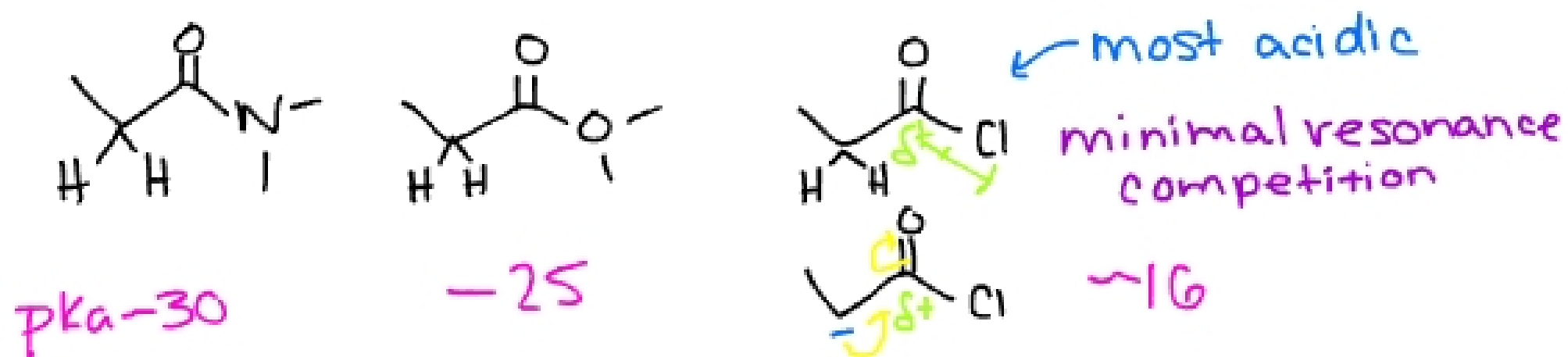


4. Basicity of COOH derivatives



5. Acidity

A. Alpha hydrogens



HX	-5
H ₃ O ⁺	0
	5
NH ₄ ⁺	10
ROH/H ₂ O	15
	20
$\equiv -H$	25
NH ₃	35
\equiv	45
\sim	55

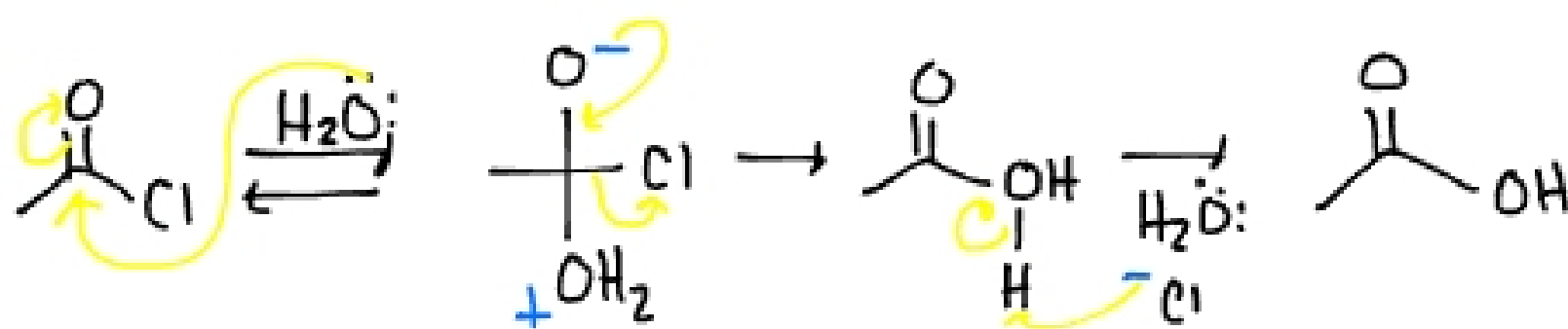
II. Acyl Halides (20-2)

1. Naming: COOH name but -ylic and replace with -onyl and replace acid with [halogen]





2. No catalysts are necessary



Why Cl as LG not H₂O? PK_a

