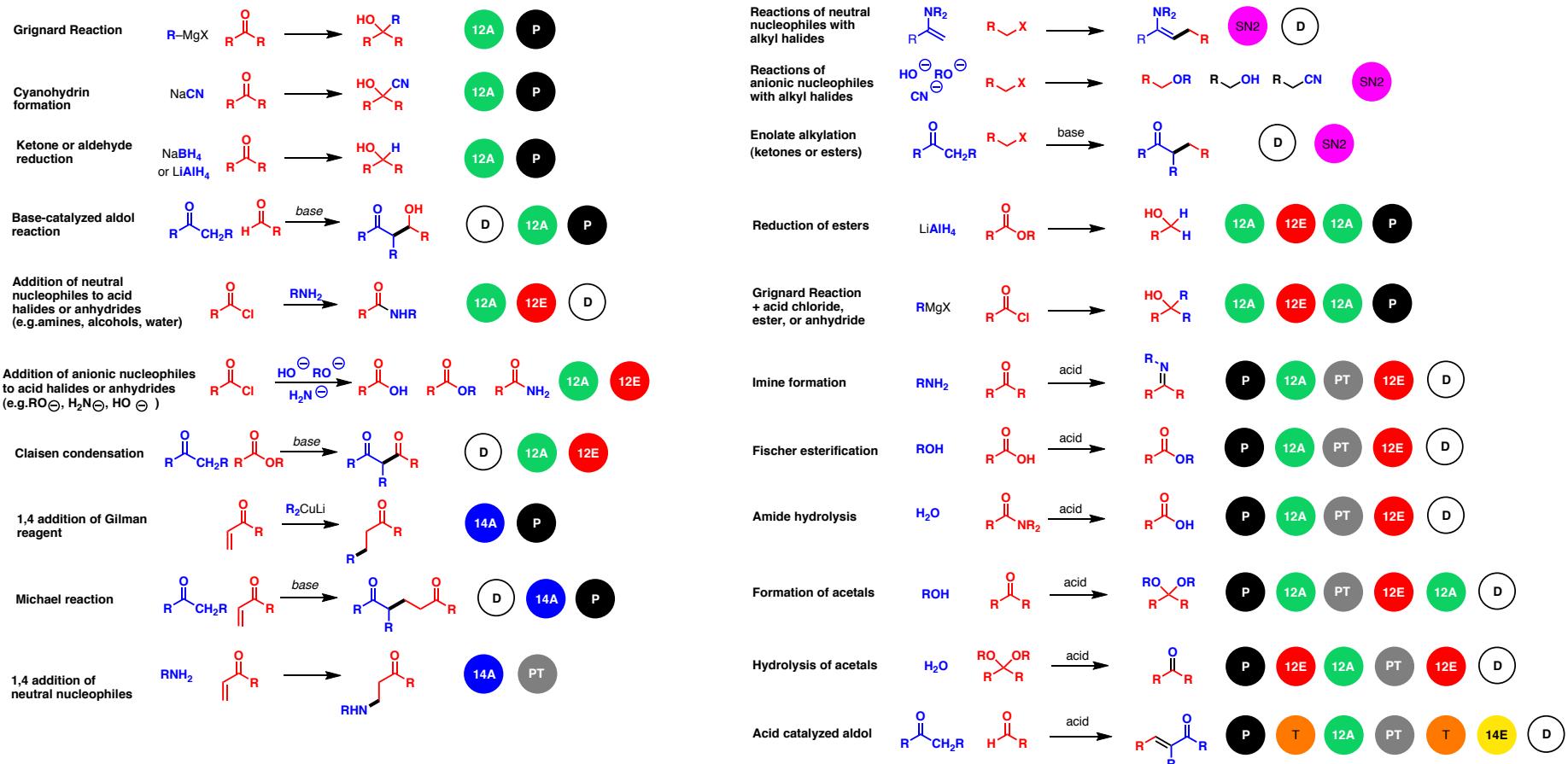


Summary Sheet #7 - Identifying the Patterns in Carbonyl Reaction Mechanisms

from "Master Organic Chemistry"
masterorganicchemistry.com
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 comments/corrections/suggestions? james@writechem.com



The Nine Mechanistic Components (with examples)

<p>[1,2] addition</p> <p>12A</p>	<p>[1,2] elimination</p> <p>12E</p>	<p>SN2</p> <p>R-X</p>	<p>Deprotonation</p> <p>H3C-C(=O)-R' + base → R-C(=O)-CH2-</p> <p>Removal of a proton from substrate</p>	<p>Proton Transfer</p> <p>Intramolecular acid-base reaction example:</p> <p>HO-OR' ⇌ H+ + OR'</p>
<p>[1,4] addition</p> <p>14A</p>	<p>[1,4] elimination</p> <p>14E</p>	<p>Keto-Enol Tautomerization</p> <p>T</p>	<p>Protonation</p> <p>P</p>	