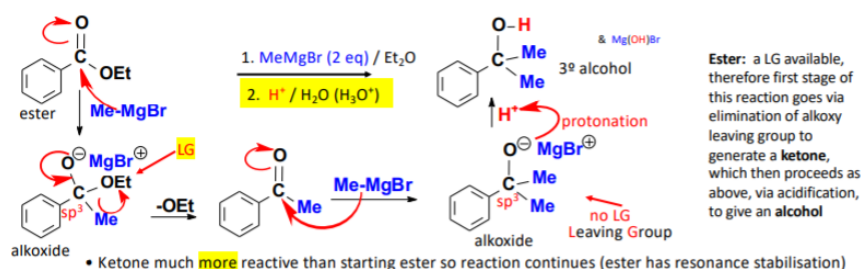


acidic workup to
produce alcohol

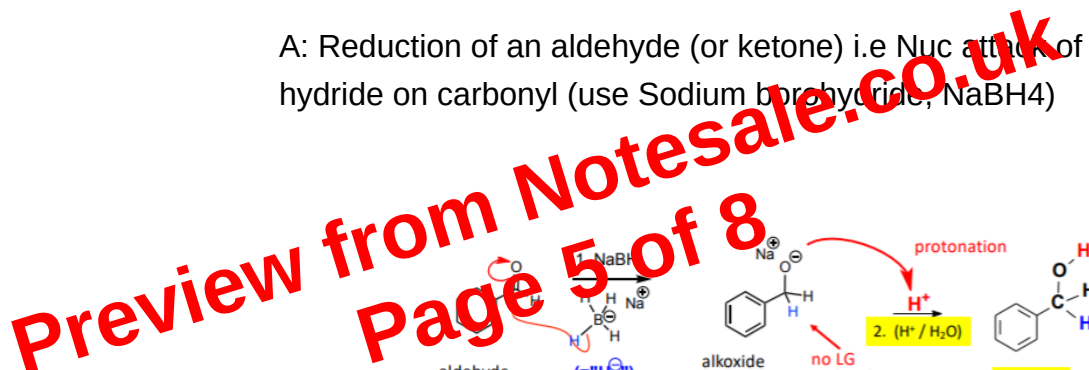
B: Nuc attack / Nuc subn rxn on **ester** by a Grignard

LiAlH₄ used to
produce aldehyde
from ester and then
nucleophilic
addition of H and
protonation to form
alcohol



Hydride Addition to Carbonyl Groups (Reduction)

A: Reduction of an aldehyde (or ketone) i.e Nuc attack of
hydride on carbonyl (use Sodium borohydride, NaBH₄)



B: Reduction of an ester (or carboxylic acid or amide) (use
Lithium aluminium hydride, LiAlH₄)

