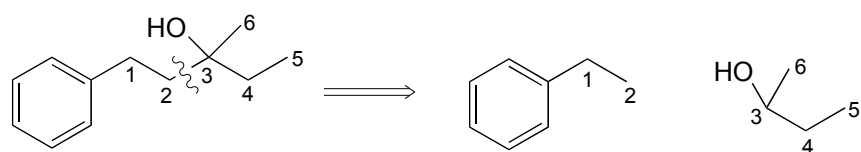
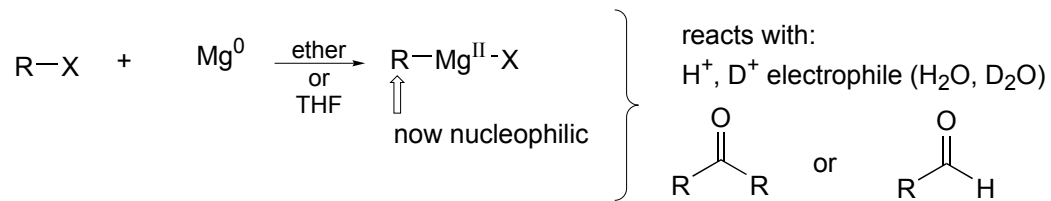


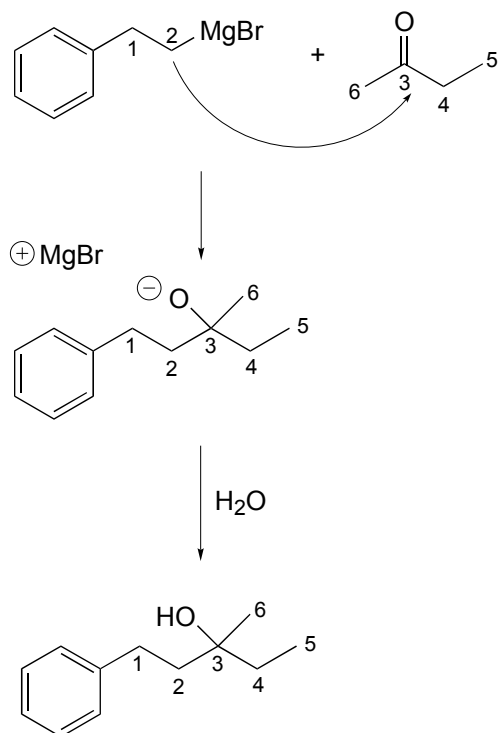
Alkyl Halides

Organometallic Reagents

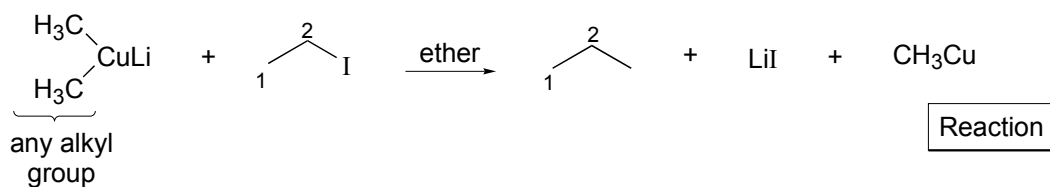
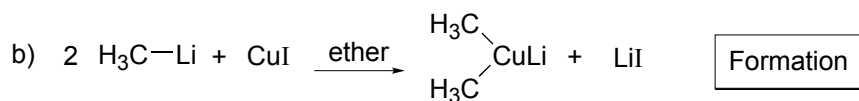
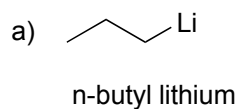
1) Grignard



disconnect between
carbons 2 and 3

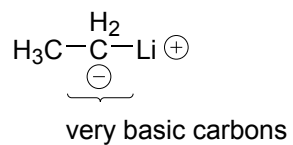
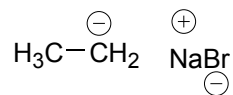


2) Organolithium

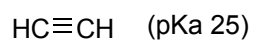
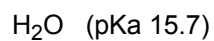


Remember

pKa of alkyl group is ~50 (very high) so deprotonated alkyl group is VERY basic



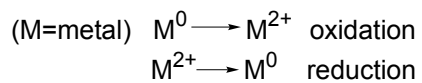
will react w/ acidic proton like



Not mentioned in class:

Chapter 10.10 Be familiar with terminology, oxidation, and reduction.

In inorganic/general chemistry:



Organic chemistry:

reduction: gain in electron density by carbon

oxidation: loss of electron density by carbon

In practice:

oxidation C-O C-N C-X bonds will form
C-H break

reduction C-H will form
C-O C-N C-X bonds will break

A very common example:

