Summary of Alcohol Reactions, Ch. 11.

1
$$R - OH + NaZ \longrightarrow R - ONa + HZ$$
1 $Acid-Base$ 2 $R - OH \rightarrow R - ONa$ 2 $R - OH \rightarrow R - ONa$ 2 $R - OH \rightarrow R - ONa$ 3 $R - OH \rightarrow R - ONa$ 3 $R - OH \rightarrow R - ONa$ 4 $R - OH \rightarrow R - O-R'$ 4 $R \rightarrow H \rightarrow R - O-R'$ 7 $R \rightarrow H \rightarrow R - O_R + H_R - PCC = R \rightarrow R - OH + H_R CO_A + R \rightarrow OH + H_R - H_R CO_A + R \rightarrow OH + H_R - H_R CO_A + R \rightarrow OH + H_R - H_R CO_A + R \rightarrow OH + H_R - H_R CO_A + R \rightarrow OH + H_R - H_R - OH + H_R - Acids7 $OH \rightarrow R - H_R - R - Br - 3'' alcohols8 $R - OH \rightarrow R - Br - Br - 3'' alcohols8 $R - OH \rightarrow R - Br - S'' - S' - Acids7 $OH \rightarrow R - Br - Br - S'' - S' - Acids8 $R - OH \rightarrow R - Br - S'' - S' - Acids8 $R - OH \rightarrow R - Br - S'' - S' - Acids9 $Calon S - S' - S' - Calon - S' - Calo$$$$$$$$

1

2

٠	Converts alcohol into a bromide that
	can be used in Grignards, E2, $S_N 2$
	reactions
•	Inversion of stereochem
•	Not good for 3° alcohols
٠	Quick 2-step conversion of alcohol
	into a nucleophilic Grignard
•	Via PI ₃
•	Retention of stereo!
	Togylatas are super leaving groups
•	hotter even then indides
•	Terrylates are well suited to S 2 and
•	Tosylates are well suited to $S_N 2$ and E_2 magnitudes
	E2 reactions.
	N 1 1 112
•	Markovnikov addition
٠	anti-Markovnikov addition
•	Radical mechanism, $3^\circ > 2^\circ > 1^\circ$
•	Zavtsey elimination



3