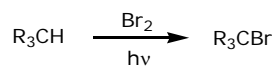
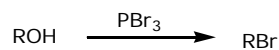


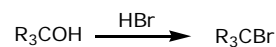
Methods for Making Alkyl Halides Used in ChemCoach *Synthesis* Reactions from Carey Chapters 4 – 6



selective for 3° H; all 3° H must be equivalent
also useful when all Hs in molecule are equivalent



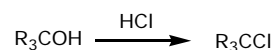
mostly used for 1° and 2° alcohols



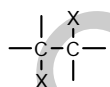
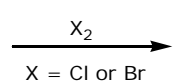
most useful for 3° alcohols; avoid 1° and 2° alcohols that will rearrange



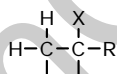
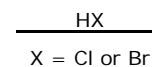
mostly used for 1° and 2° alcohols



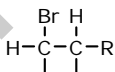
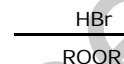
synthetic utility mostly limited to 3° alcohols



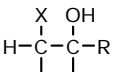
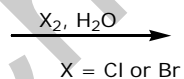
anti addition; for cyclic alkenes, halogen atoms are *trans* in product



X adds to *more* highly substituted carbon



Br adds to *less* highly substituted carbon



OH adds to *more* highly substituted carbon