

REACTION LEARNING SHEET

NAME OF REACTION (if any): _____

General form of the reaction:

Reactant	Reagent	Product(s)
	→	

A specific example (try to make it non-trivial)

Reactant	Reagent	Product(s)
	→	

What ways can this specific example be asked on an exam (i.e. what flash cards do I need?)

	→	?
?	→	
	→	

What does this reagent do?

What is the mechanism of this reaction?

What is the stereochemistry of this reaction? (e.g. Is it stereospecific, stereoselective, or non-stereoselective? Is it suprafacial (*syn*), antarafacial (*anti*), or neither?)

What is the regiochemistry of this reaction? (e.g. does it occur according to Markovnikov's Rule, or Zaitsev's Rule, or Hofmann's Rule?)

Is there an intermediate involved in this reaction? (e.g. a carbocation, a carbanion, a free radical, a three-membered cyclic onium ion, or some other high-energy intermediate?)

Does this intermediate lead to any special reactivity or observations?

What reagent or combinations of reagents can be used to make the active reagent in this reaction?