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UCI Chem 51A Dr. Link

### Goals

 After this lesson you should be able to
Identify reaction conditions that favor either the E1 or E2 mechanism

> Determine whether the E1 or E2 mechanism will be dominant for an alkyl halide under a given set of conditions



### Which Mechanism Is It?

E2 usually faster than E1 because forming carbocation intermediate is slow

□ To favor E1, slow down E2

## The Alkyl Halide

Both have the same order of reactivity!

Reactivity Order 3° > 2° > 1°. No rxn for E1

How do we decide?

#### The Base: Most Important Factor

□ Strong bases: E2

🛛 Weak bases: E1



Examples

# Wrapping Up

- Practice identifying conditions that favor E1 or E2 mechanisms
- Practice determining which mechanism will dominate based on a set of conditions
- Practice predicting the outcome of elimination reactions