

**Today**

Chap 17 Reactions at the  $\alpha$ -C of a Carbonyl

Aldol Additions

Sections 17.10, 17.12

Benzene and Aromaticity 8.1, 8.2, 8.16 - 8.18

**Second Class from Today**

Test 3 on Chap 16 and 17

**Next Class**

Alkylation of the  $\alpha$ -C of a Carbonyl  
Section 17.6, 17.7

Benzene and Aromaticity 8.1, 8.2, 8.16 - 8.18

Electrophilic Aromatic Substitution  
8.16 - 8.21, 18.1 -18.8

**Third Class from Today**

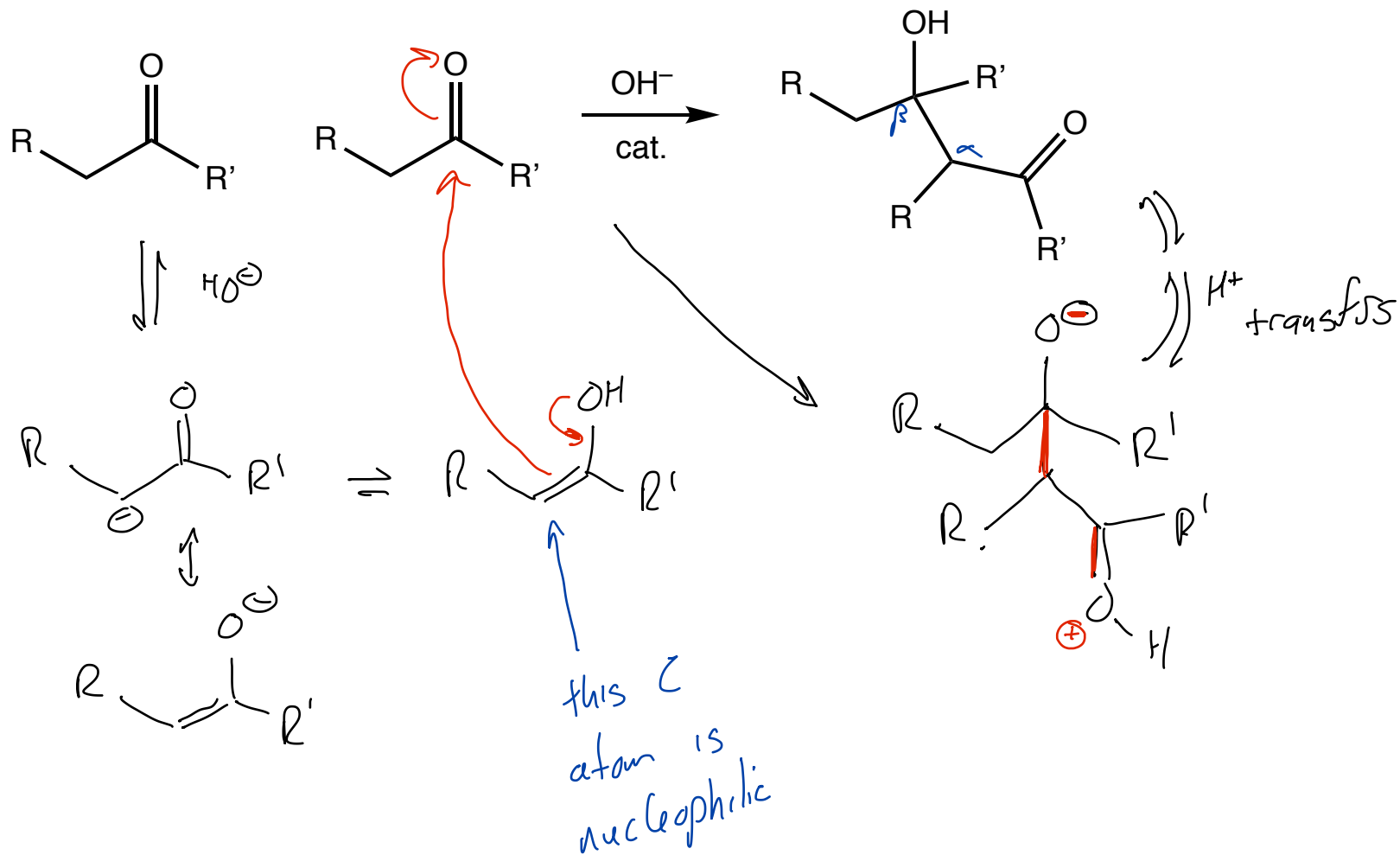
Electrophilic Aromatic Substitution  
8.16 - 8.21, 18.1 -18.8

**Please hand in reworked test 2.**

# Aldol Addition

$\beta$ -hydroxy carbonyl

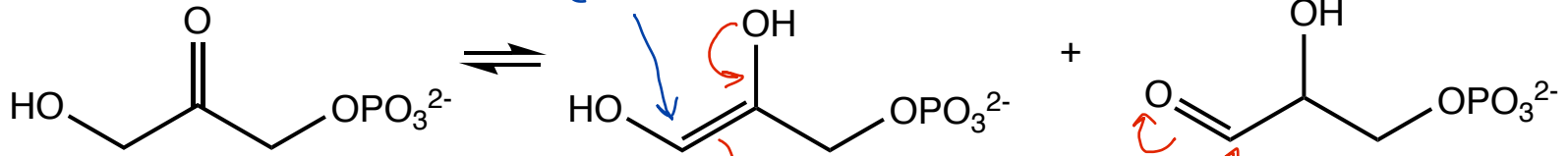
Section 17.10, 1712



Aldol Addition

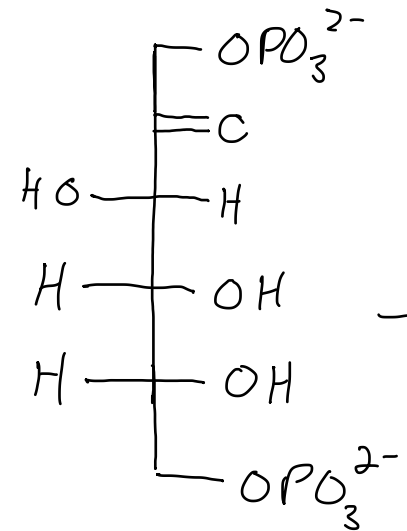
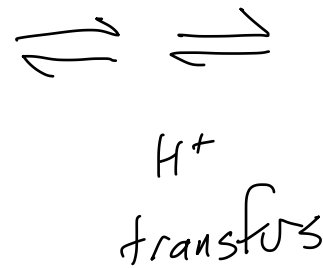
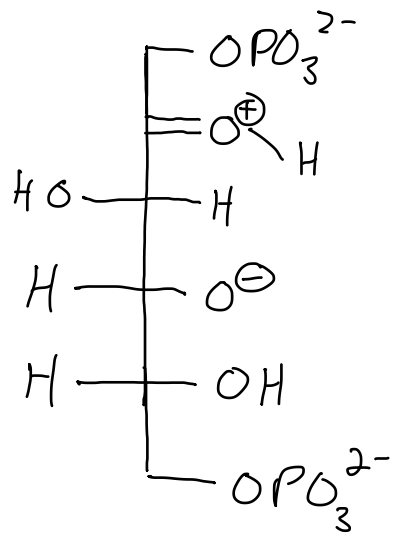
Section 17.10, 17.12

enol tautomerization  
creates a nucleophilic  
C atom



dihydroxyacetone  
phosphate

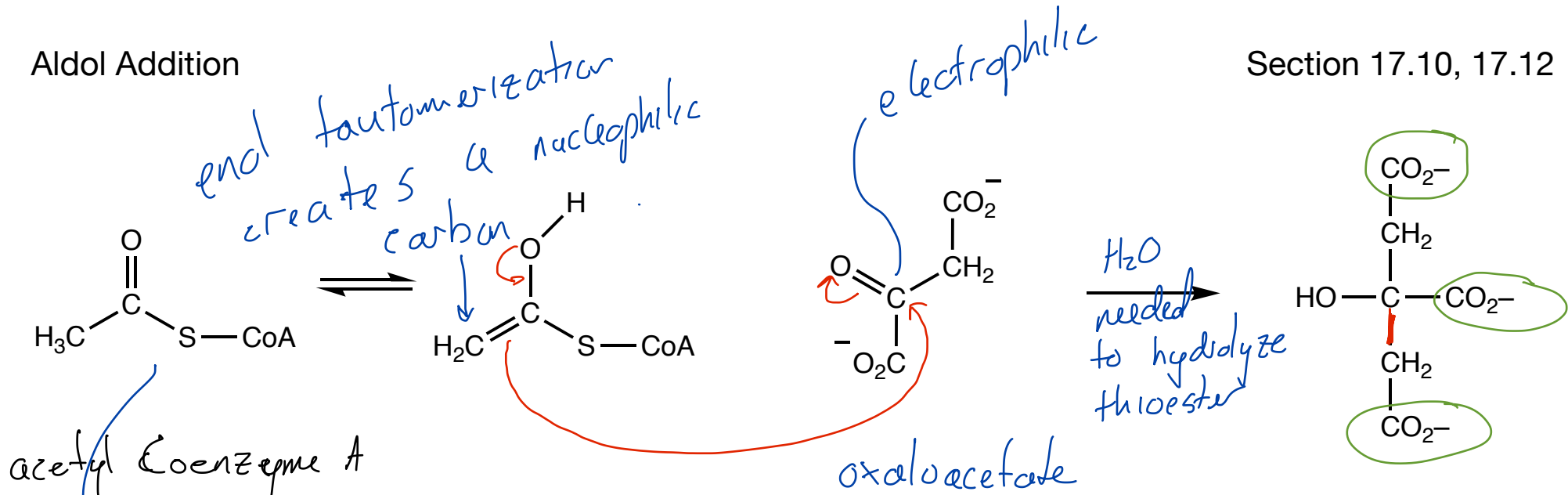
glyceraldehyde-3-  
phosphate



1,6- Fructose bisphosphate

Aldol Addition

Section 17.10, 17.12



esters aren't that reactive because of the poor OR LG strong π bond because 2p on O can interact with 2p on C

tricarboxylic acid cycle  
Krebs cycle  
citric acid

