

**(26) Today**

Chap 13.1: Glycolysis (skip 13.1.3)

**Next Class (27)**

Chap 13.1: Glycolysis (skip 13.1.3)

**(28) Second Class from Today**

Chap 13: Glycolysis Energetics and  
Gluconeogenesis

**Third Class from Today (29)**

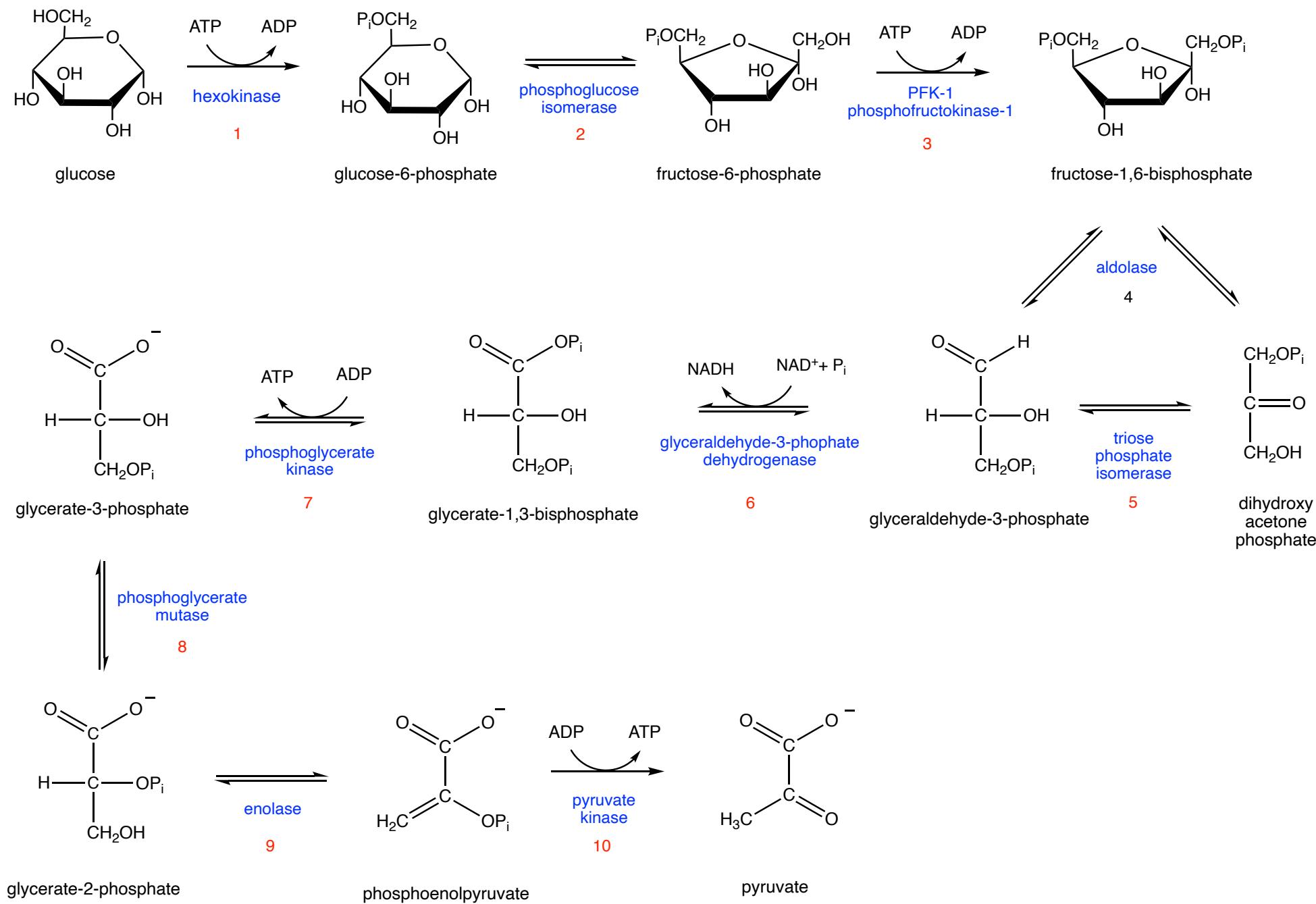
Chap 13: Gluconeogenesis

Rework test 2 and Hand in on Wednesday, April 16

Please hand in assignment 2.

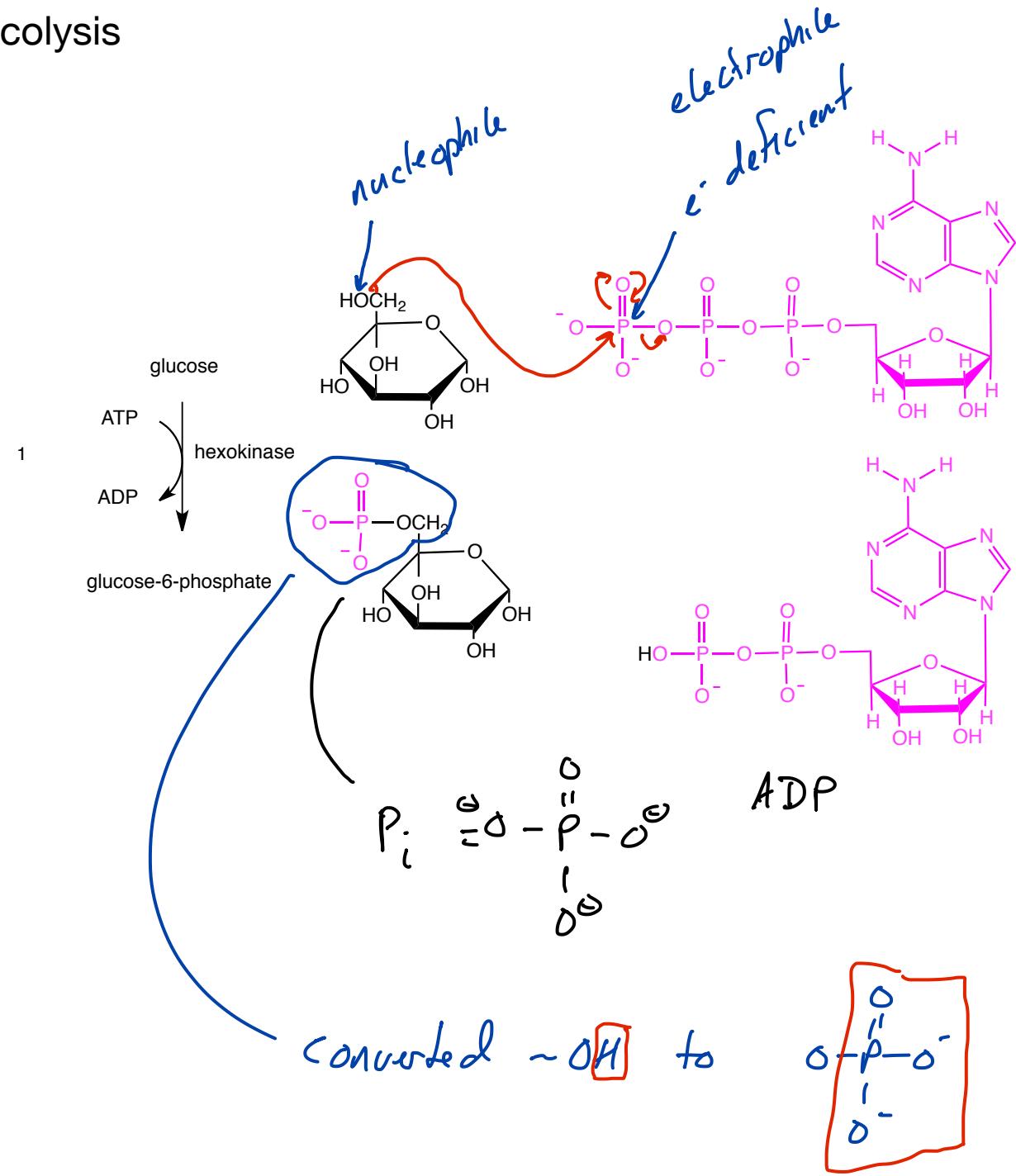
# Glycolysis

# Section 13.1



# Glycolysis

## Section 13.1

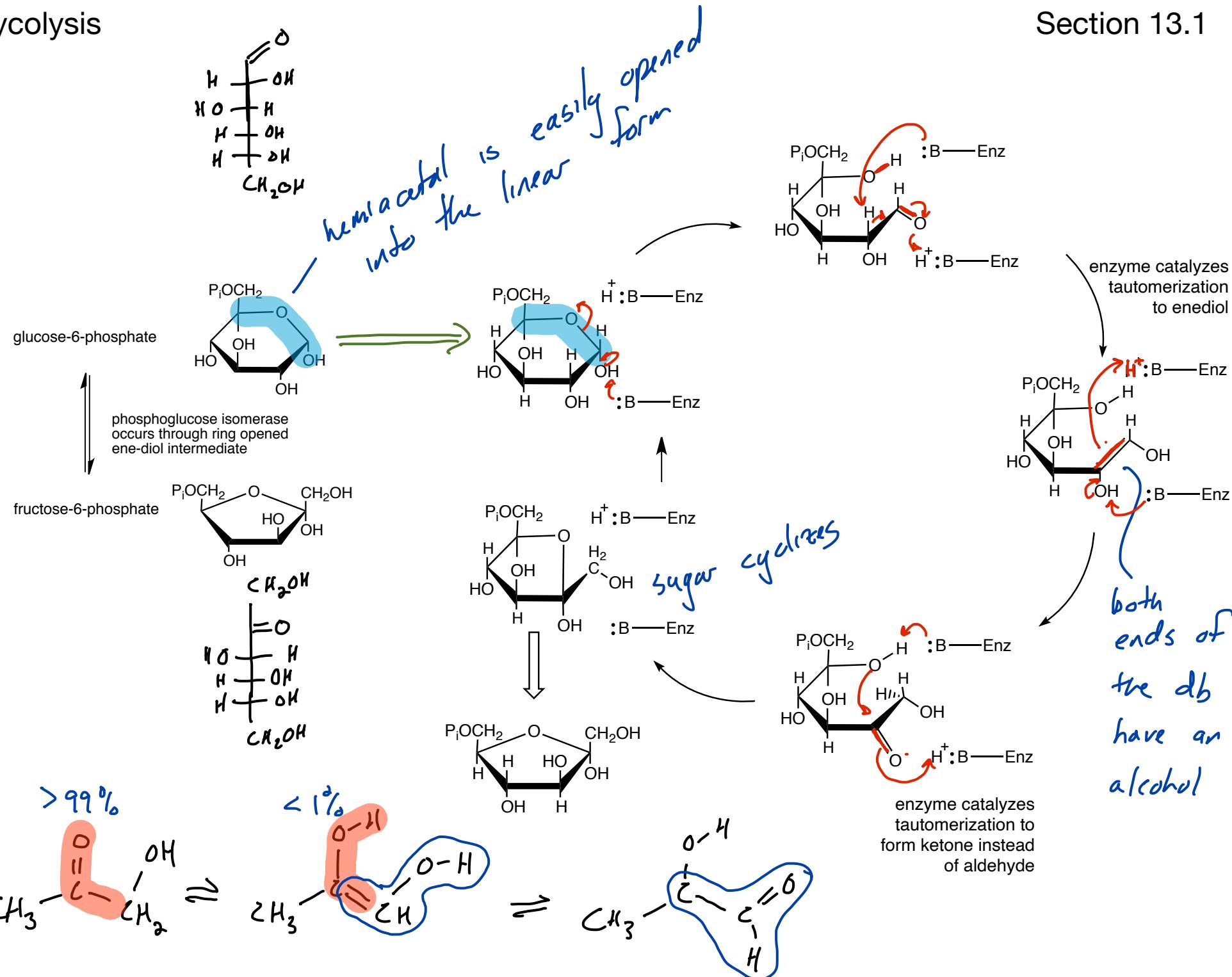


negatively charged  
sugar will not  
exit the cell

activated OH group  
on 6<sup>th</sup> C atom

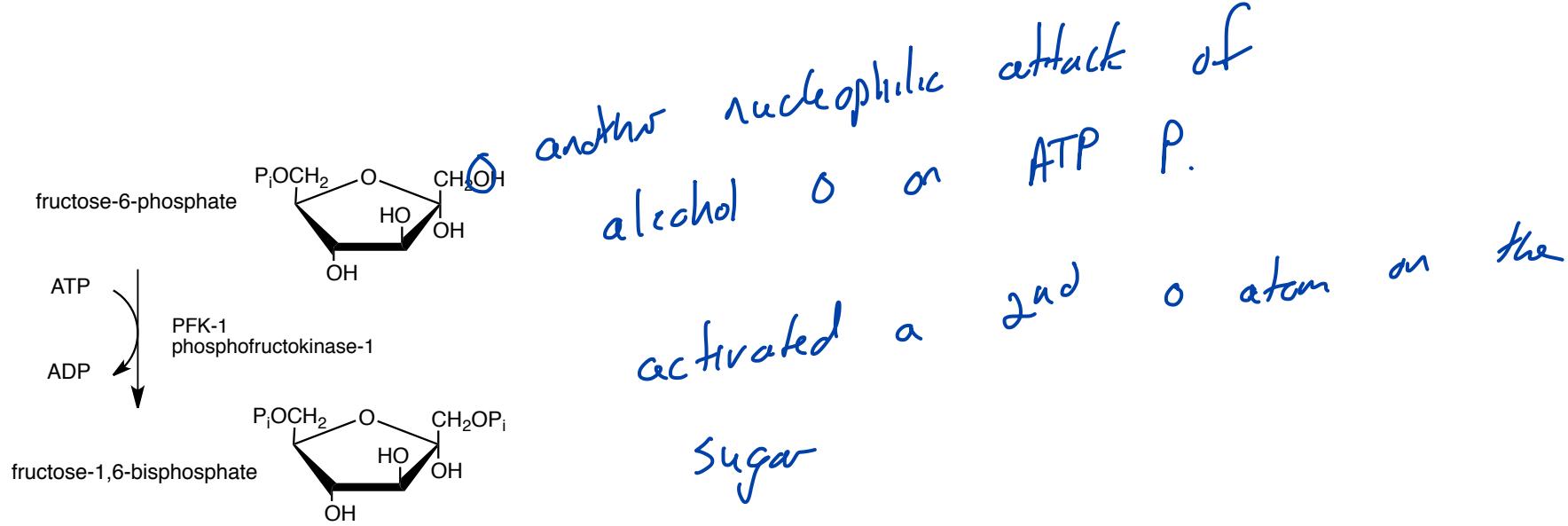
# Glycolysis

## Section 13.1



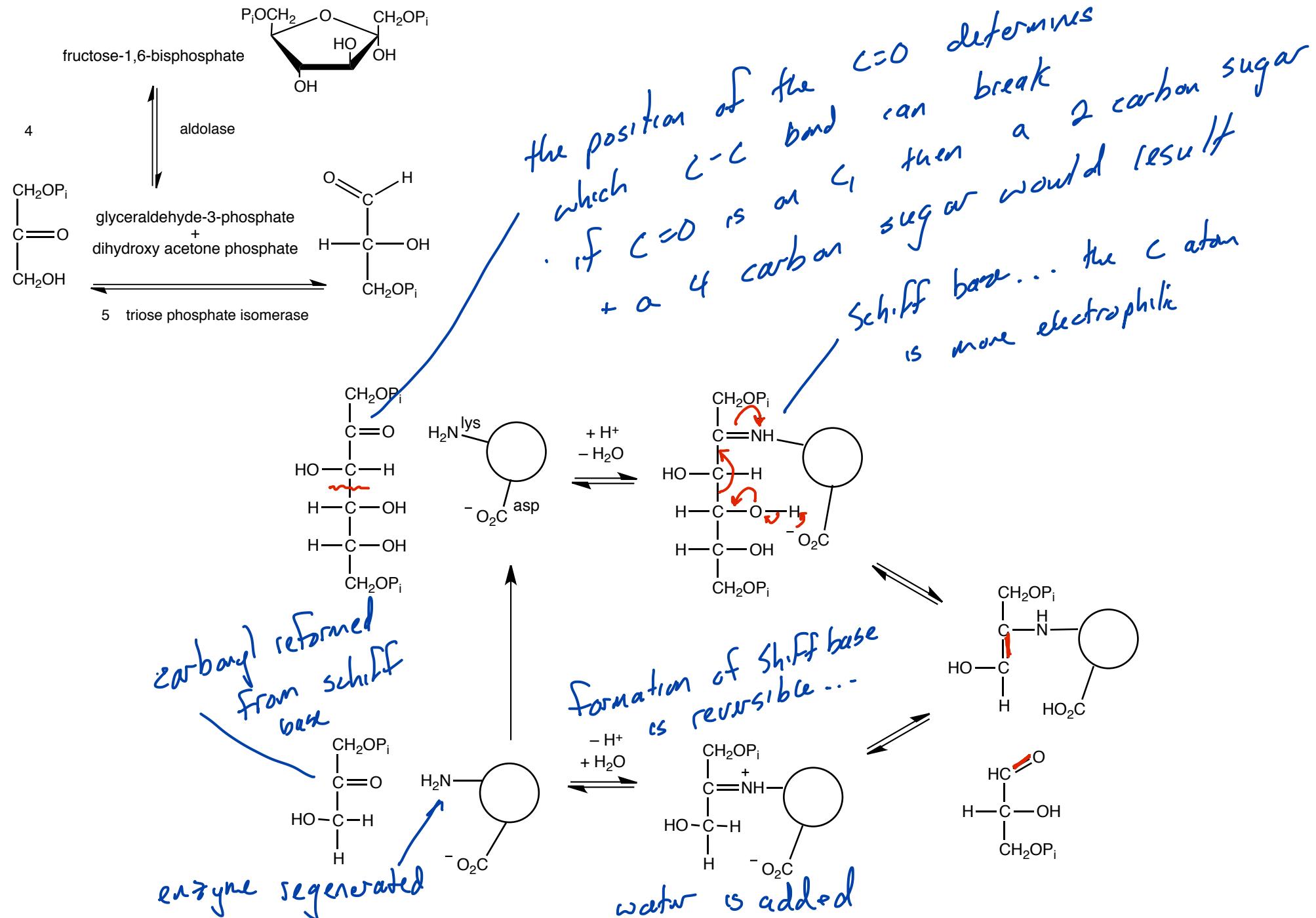
# Glycolysis

## Section 13.1



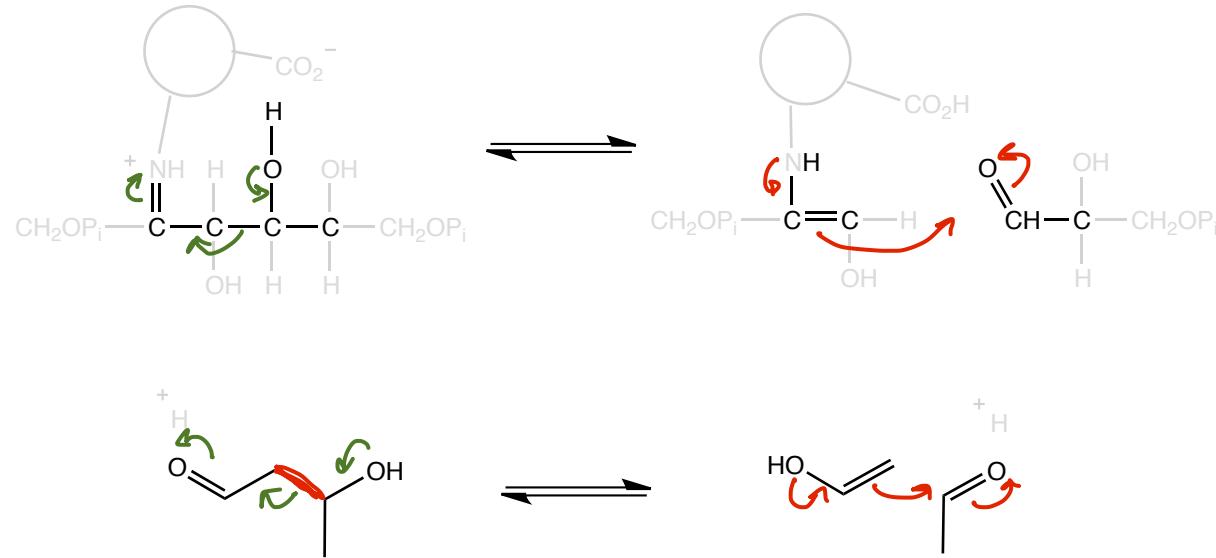
# Glycolysis

## Section 13.1



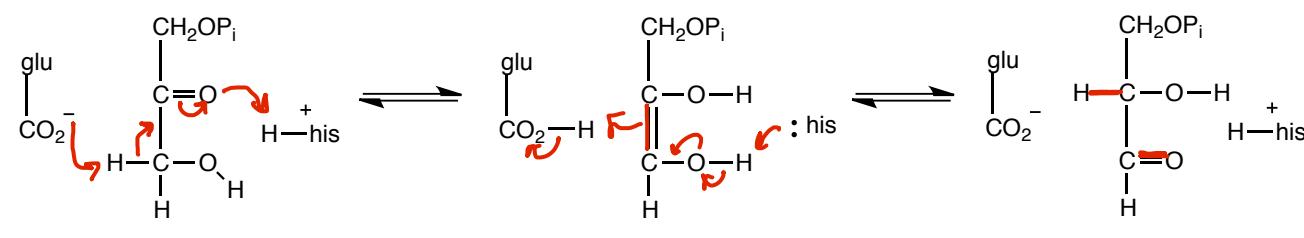
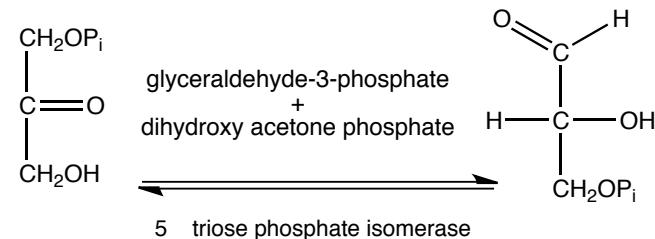
# Glycolysis

## Section 13.1



# Glycolysis

## Section 13.1



ketone

enediol

aldehyde

this is like the reaction where  $\text{glu-6-Pi}$   
became  $\text{fru-6-Pi}$

fructose

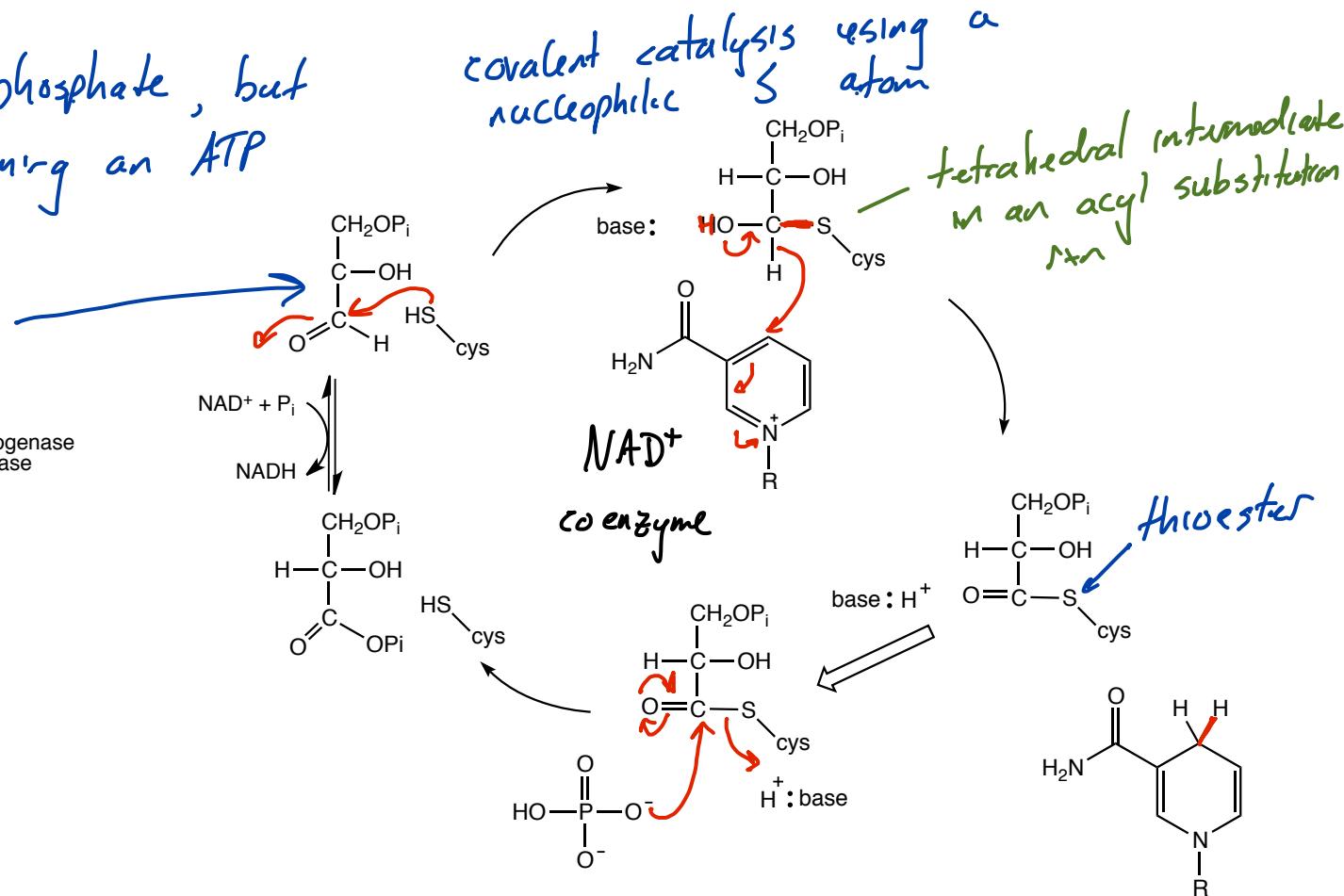
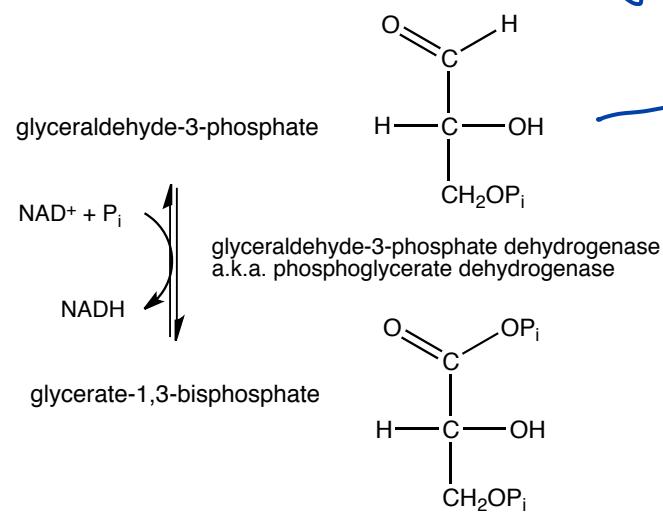
enediol

glucose

# Glycolysis

## Section 13.1

This rxn adds a phosphate, but we are not consuming an ATP



coenzyme - consumed during reaction  
- regenerated elsewhere  
- returned to the active site

an  $\text{H}^+$  and  $2\text{e}^-$  are transferred to  $\text{NAD}^+$  to form  $\text{NADH}$