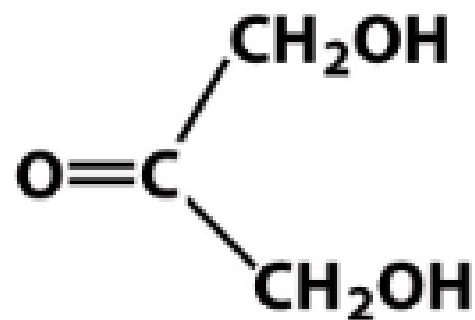
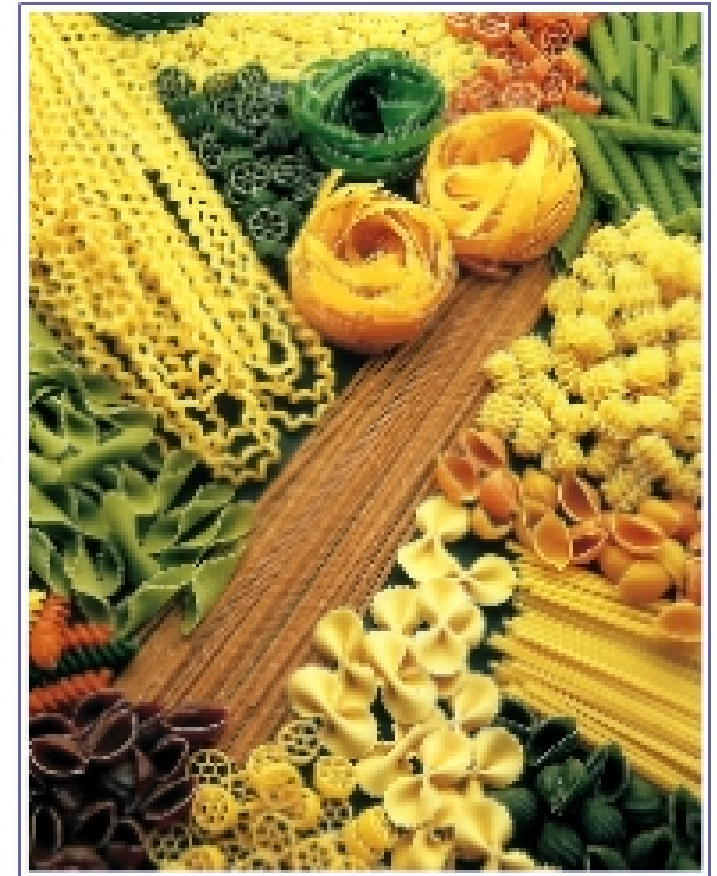


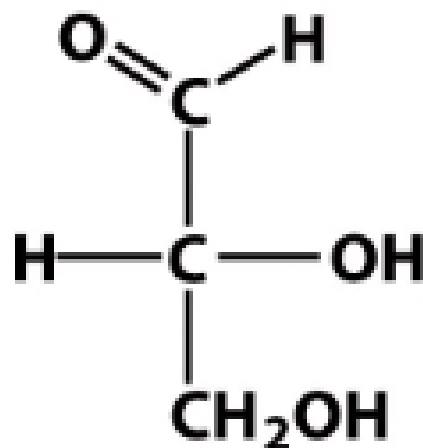
# Carbohydrates: Structure and Function

## Sugar features

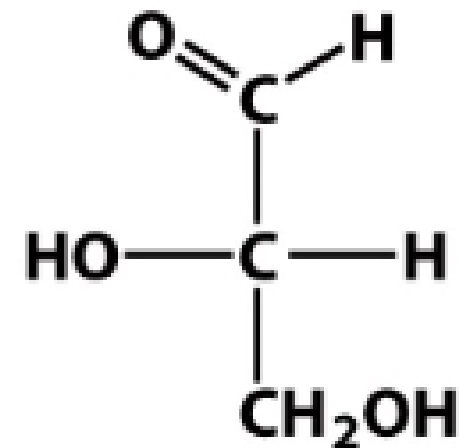
- 3 carbon minimum; aldehyde or ketone present;  $(C H_2O)_n$
- Energy storage; lubricant; signaling



**Dihydroxyacetone**  
(a ketose)

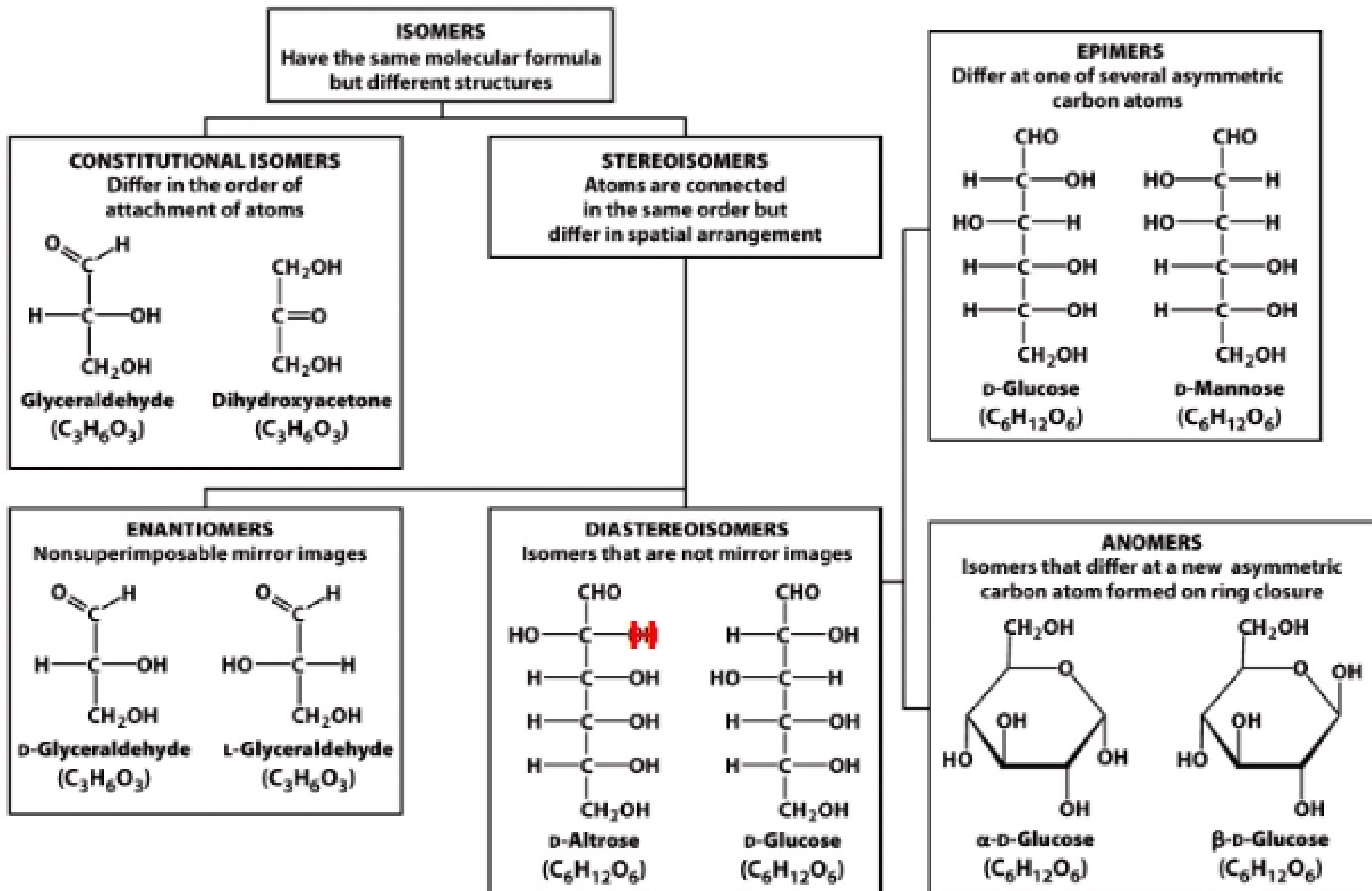


**D-Glyceraldehyde**  
(an aldose)



**L-Glyceraldehyde**  
(an aldose)

# Carbohydrate Isomeric Forms



# D-Aldose Sugar Configurations

Numbering begins at the carbonyl end of the sugar

Penultimate carbon (pink) sets L-versus D-form

