

# Carbohydrates Study Guide

## Cellular Functions of Carbohydrates

1. **Energy storage/fuel**
  - a. Glucose, starch, glycogen
2. **Structural roles**
  - a. Cellulose, chitin
3. **Cellular recognition**
  - a. Selectins in leukocytes
  - b. Blood group in antigens
  - c. Glycosylases: golgi glycosylation modification
    - i. Can respond to cell damage or promote immune response
  - d. Modifications are essential for function

## Monosaccharides

- Basic carbohydrate unit or monomer
- Simple sugars
- Built from **carbon, hydrogen, oxygen**
- Minimum of three carbons to make sugar
- Classified according to type of carbonyl group and number of carbon atoms
  - **Aldehyde group: aldose sugar**
  - **Ketone group: ketose sugar**
  - Number of carbons: triose, tetrose, pentose, hexose
- Aldoses or ketoses have general formula **(C<sub>x</sub>H<sub>2</sub>O)<sub>x</sub>**

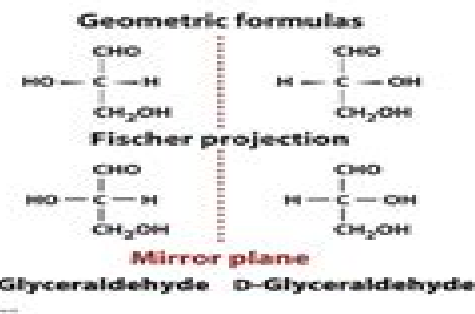


## Optically Active

- Most sugars are optically active: **rotate plane polarized light**
- **Molecules are asymmetric**
- Sugars usually have multiple chiral centers
  - **N chiral centers have 2<sup>n</sup> possible stereoisomers**
- Enantiomers are **non-superimposable mirror images**
  - Configurations at all asymmetric centers differ
  - **Chemically indistinguishable** unless probed by reactants that also contain chiral centers
- **Diastereomers** differ in configuration at **one or more asymmetric centers** but not all; they are not mirror images
- D and L are mirror images
- **No clear relationship between molecular structure and rotation of plane polarized light** → cannot predict
- D sugars have the same absolute configuration as D-glyceraldehyde at the asymmetric center located farthest from the carbonyl group (**OH at C5 group on the right**)
- Amino acids in proteins have **L configurations**
- D sugars are most common in cells, there are not many L sugars

## Aldoses (left)

- Important biological molecules
- Glyceraldehyde is the simplest
- Multiple chiral centers
- Pentoses and hexoses are important to know
- **C1 position is the carbonyl in glyceraldehyde**



# Carbohydrates Study Guide Answer Key

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## **Carbohydrates Study Guide Answer Key:**

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