Building Blocks: Carbohydrates & Lipids

Big Ideas: Carbohydrates — on exam!

- Function
  - Involved in nearly all aspects; often as a component

- Structure
  - Sugars → Carbohydrates
  - Structure determined by identity and arrangement of sugars

- Structural
  - Cell walls
  - Exoskeletons
  - Organic molecules

- Monomer
  - Disaccharide, sugar
  - Ends in "-ose" (glucose, fructose)

- Dimer
  - Disaccharide, sugar
  - Ends in "-ose" (sucrose, lactose)

- Polymers
  - Polysaccharide, carbohydrate
  - Starch, cellulose

Biology Specificity

- Glycoproteins
  - Cell surface

- Glycolipids

\[ \alpha - \text{Glucose} \]

\[ \beta - \text{Glucose} \]