

### **HELIXHELIX**



# **Macromolecule Review**

AP Biology

#### Carbohydrates

- Structure / monomer
  - monosaccharide
- Function
  - energy
  - raw materials
  - energy storage
  - structural compounds
- Examples
  - glucose, starch, cellulose, glycogen

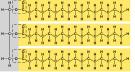
glycosidic bond

peptide bond

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## Lipids

- Structure / building block
  - glycerol, fatty acid, cholesterol, H-C chains
- Function
  - energy storage
  - membranes
  - hormones



Examples

ester bond (in a fat)

• fat, phospholipids, steroids

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#### **Proteins**

#### Structure / monomer

- amino acids
- levels of structure

#### Function

- enzymes
- ◆ defense
- ◆ structure ◆ transport
- ◆ signals
- ◆ receptors

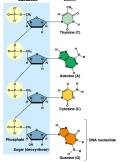
#### Examples

• digestive enzymes, membrane channels, insulin hormone, actin

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## **Nucleic acids**

- Structure / monomer
  - nucleotide
- Function
  - information storage & transfer
- Examples
  - DNA, RNA



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phosphodiester bond

