**Ch.2 Biological Molecules Key Vocab/Concepts**

**Key Ideas:**

1. Hydrolysis vs. condensation reactions
2. Monomers and Polymers
3. Structure correlates to function

**Key Terms:**

Macromolecules:

1. Carbohydrates/sugars
   1. Monosaccharides
      1. Glucose
   2. Disaccharides
      1. Lactose, Sucrose
   3. Polysaccharides

Examples: starch, glycogen, cellulose

* 1. Glycosidic bond

1. Lipids
   1. glycerol
   2. fatty acid
   3. triglyceride
   4. phospholipid
   5. steroids/cholesterol
   6. saturated vs. unsaturated
2. Protein
   1. amino acids
   2. peptide bond
   3. polypeptide
   4. Structure: primary, secondary, tertiary, quaternary

Bonding: Peptide bonds, sulfur bonds, hydrogen bonds

* 1. Globular vs. fibrous proteins
  2. Examples: hemoglobin, collagen

1. Water
   1. Hydrogen bonds
   2. Hydrophillic vs. hydrophobic substances
   3. Cohesion, surface tension, solvent, heat capacity,
2. Biochemical Tests
   1. Benedict’s Test
   2. Iodine Test
   3. Biuret Test
   4. Ethanol Emulsion Test

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