BIOLOGICAL MOLECULES Ch. 3

CONTEXTUALIZE

Have you ever made a friendship bracelet? Each individual bead is strung together to make a full bracelet. This concept of smaller items being joint together to create a larger and more complex item is the heart of today's lesson.

What are macromolecules?

- Marco = large
- large molecules formed by combining smaller molecules
 - carbohydrates, proteins, nucleic acids

What are polymers and monomers?

- poly (greek) = many
- mers (greek) = parts
- polymers = many parts
- mono = single
- monomers = singe part
- polymer: a long chain of many repeating molecules
- monomer : repeating molecules that make up polymers



What are enzymes?

- special macromolecules that speed up chemical reactions

How does dehydration reaction work?

- monomers are bonded by this process
- covalently bonded with loss of water molecule
- dehydration = loss of water

What is hydrolysis?

- polymers are broken down into monomers through hydrolysis
- -reverse of dehydration reaction
- hydro (Greek) = water
- lysis (Greek) = break
- bond is broken with an ADDITION of a water molecule







