Macromolecules
Question 1: What standard is explained by these notes?

Answer 1: Identify the function of the four major macromolecules (SB1c)

Example 1: We will learn how big molecules function (work) in our body
What are macromolecules?

big molecules; macro means big and a molecule is a group of two or more atoms that stick together.

Example: Macromolecules are polymers
Question: What is a polymer?

Answer: A big molecule made of a lot of smaller pieces. Smaller pieces of a polymer are called monomers

A polymer is like a .....
Question: How is a train like a polymer?

Answer: A train is made of smaller cars like a big polymer is made of smaller monomers

Example: Train = polymer and Car on train = monomer
What is a monomer?

Answer: building block something larger

Example: brick in a wall or car on a train
Question: What are the 4 macromolecules?

Answer: Carbohydrates, lipids, proteins, and nucleic acids

Examples: french fries, meat, butter, DNA
Question: What is a carbohydrate?

Answer: macromolecules that function to give our cells energy

Example: sugars like glucose, sucrose and cellulose
What are the 3 main types of carbohydrates?

Answer:

monosaccharides = simple sugars (1 sugar)
disaccharides = double sugars (2 sugars)
polysaccharides = many sugars (3 or more sugars)

Examples:

- glucose = monosaccharide
- sucrose = disaccharide
- cellulose (starch) = polysaccharide
Question: What are lipids?

Answer: macromolecules that function to store energy, give insulation, and waterproof

Examples: fats, cholesterol, earwax
Question: What are proteins?

Answer: macromolecule that builds, maintains, and replaces the tissues in your body; can be enzymes, hormones and muscle structures

Examples: beef, poultry, fish, eggs, dairy products, nuts, and seeds
Question: What are nucleic acids?

macromolecules that carry genetic information to control cells’ activities

Examples: DNA and RNA
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<thead>
<tr>
<th>Macromolecule</th>
<th>Monomer</th>
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<tbody>
<tr>
<td>carbohydrate</td>
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<td>lipid</td>
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Review Macromolecules with Music

Molecules Gone Wild (Bio Style)
Macromolecules Notes.notebook

Macromolecules Review on the Internet

http://bc.whfreeman.com/thelifewire/content/chp03/0302002.html

http://www.webpages.uidaho.edu/bionet/biol115/t2_basics_of_life/lesson2.htm

Think: Where can you find most macromolecules to compare them?