



Macromolecules Webquest

Name: _____

Task 1 – Introduction to Biomolecules Video

Use any method to watch the Biomolecules video by the Amoeba Sisters on YouTube.

As you watch, answer the following questions.

Full URL: <https://www.youtube.com/watch?v=YO244P1e9QM>

Tiny URL: <http://tinyurl.com/jif644z>



1. What are biomolecules: A chemical compound found in living organisms
2. What are carbohydrates a source of? Energy
3. What is the monomer of carbohydrates? Monosaccharides
4. What are lipids also known as? Fat
5. What are three functions of lipids? Lipids provide insulation, store energy, and makeup cell membranes.
6. After you run out of carbohydrate energy, where does your body get more energy? It gets it in fat
7. What are the monomers of proteins? Amino Acids
8. What are three functions of proteins? Participate in muscle development, work in the immune system, act as it enzymes
9. What are enzymes made of? Proteins
10. What are two examples of nucleic acids? DNA and RNA
11. What do DNA and RNA code for? for traits
12. What is the monomer of nucleic acids? Nucleotide
13. Write out the names of the elements contained in each macromolecule:
 - a) Carbohydrates: CHO Carbon, Hydrogen, Oxygen
 - b) Lipids: CHO Carbon, Hydrogen, Oxygen,
 - c) Protein: CHON Carbon, Hydrogen, Oxygen, Nitrogen,
 - d) Nucleic Acids: CHONP Carbon, Hydrogen, Oxygen, Nitrogen, Phosphorus



Task 2 – Molecules of Life Tutorial

Use any method to complete the Molecules of Life Tutorial from the CPALMS website. As you complete the tutorial, answer the following questions.

Tiny URL: <http://tinyurl.com/zvla6qb>

Full URL: <http://www.cpalms.org/Public/PreviewResourceStudentTutorial/Preview/111955>



14. How is a train comparable to a macromolecule? A train is analogous to a macromolecule. Each car in the train is analogous to a macromolecule.
15. Summarize the meanings of the following prefixes:
 - a. micro: small
 - b. macro: big / large
 - c. mono: one
 - d. poly: many
16. Differentiate between a monomer and polymer. A monomer is a type of molecule that has the ability to chemically bond with other molecules in a long chain; a polymer is a chain of an unspecified number of monomers.
17. Fill in the blank. A train-car is to a train as a monomer is to a polymer and a molecule is to a macromolecule.
18. List the 4 classes of macromolecules. Carbohydrate, lipid, protein, nucleic acid
19. What are two important functions of carbohydrates? Carbohydrates are a source of fuel for cells and building material
20. What type of complex carbohydrate is cellulose and what is its role in plant cells? Polysaccharides and its roles are cellulose
21. What is another name for a complex carbohydrate? Polysaccharides
22. Where do we get all of our simple and complex carbohydrates from? From plants

Macromolecules Webquest Answer Guide

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