

Name _____

Biomolecules Structure and Function – Function Option 2

Go to www.biologybynapiet.com and click the link Function of Biomolecules or enter this URL into the address bar: www.phschool.com/science/biology_place/biocoach/bioprop/intro.html

Concept 1: Monomers and Polymers:

1. What is a macromolecule? What is another word for macromolecule?
2. How are macromolecules formed?
3. How is dehydration condensation involved? Why is it called this?

Concept 2: Classes of Biomolecules

4. Complete the chart of the basic biomolecules found in living things.

Monomer	Polymer

Concept 3: Lipids

5. What property do all lipids have in common? What does this mean?
6. What are four examples of lipids?
7. Describe 6 functions of lipids.

If your computer allows, do the practice activity and build a lipid.

Concept 4: Carbohydrates

8. Carbohydrates are commonly called _____.
9. What process is forming the disaccharide in the diagram? (hint: is water being used or released?)
10. What are the three types of carbohydrates? How do they differ from each other
11. What are 4 functions of carbohydrates?

Concept 5: Proteins

12. Which macromolecules are the most abundant and diverse?
13. Describe the 6 functions of protein?

Concept 6: Nucleic Acids

14. Give two examples of nucleic acids.
15. What is the primary function of nucleic acid?
16. What is the monomer for nucleic acids? Draw it.

General Questions:

17. Which macromolecules function depends on the order of its monomers? Explain.
18. Which 3 macromolecules do we get from our food?