

Biology Guided Reading Worksheet 10-3-08

[http://www.phschool.com/science/biology\\_place/biocoach/bioprop/intro.html](http://www.phschool.com/science/biology_place/biocoach/bioprop/intro.html)

\*\*Click on building biomolecules then click on next concept

1. Explain what most large molecules are made of.
2. Explain the difference between a monomer and a polymer.
3. Give another name for a polymer.
4. Explain what is meant by dehydration and another name for this process.
5. Explain what is involved in the dehydration process.
6. Explain what a catalyst is and what it does (look it up if you don't know).
7. What is the catalyst for condensation? Hydrolysis?

\*\*Concept 2

8. Give the 4 basic kinds of monomers that most organic molecules are built with.
9. For each of the monomers give the polymer that forms from linking these monomers.

\*\*Concept 3

10. List the 4 kinds of lipids.
11. What is unique about lipids compared with the other organic molecules.
12. Describe the structure of a typical lipid molecule.
13. Give at least 4 functions of lipids.
14. Give 2 functions of steroids.

\*\*click the Review button

15. Explain what a hydrocarbon is.
16. Are hydrocarbons found in organisms? Explain
17. What is unique about the structure of a fatty acid?
18. Why is having a water soluble end important to a fatty acid?
19. Explain the difference in structure between a saturated and an unsaturated fatty acid.
20. Give examples of everyday substances that have saturated and unsaturated fats in them.

\*\*Click the practice button and build these molecules until you are proficient at it

\*\*Concept 4

21. Explain how carbs get their name.
22. What's the name given to small carbs and what molecules do they include?
23. What are larger carbs called?
24. Give 4 main functions of carbs.

\*\*Concept 5

25. Describe the size of protein molecules and how much of an organism is made from proteins.
26. Give 6 functions of proteins.