

Biochemistry Notes Worksheet

NAME: _____
DATE: _____ BLOCK: _____

1. Most life processes are a series of chemical reactions influenced by what 2 factors?
1. _____ 2. _____
2. What 2 processes make up metabolism?
1. _____ 2. _____
3. Use **anabolic** or **catabolic** to describe the following actions:
 - a. Digestion _____
 - b. Protein production _____
 - c. Repairing tissue _____
 - d. Breaking down sugars _____
4. What are the 4 main elements that make up the components of a living cell? 1. _____
2. _____ 3. _____ 4. _____
5. Most cells function best in a _____ range of _____ and _____.
6. What happens to cells at very low temperatures? _____
7. What happens to cells at extremes of pH or temperature? _____
8. What element is necessary to make up an organic compound? _____
9. List the 5 functions that macromolecules perform. 1. _____
2. _____ 3. _____ 4. _____ 5. _____
10. How many bonds can carbon form? _____
11. Macromolecules are _____ molecules also called _____.
12. List the 4 main macromolecules. 1. _____ 2. _____ 3. _____ 4. _____
13. List and describe the 3 main carbohydrates and give an example of each.
 - a. _____ - _____ sugar unit – Ex.: _____
 - b. _____ - _____ sugar unit – Ex.: _____
 - c. _____ - _____ sugar unit – Ex.: _____
14. What are the 2 functions of carbohydrates? 1. _____ 2. _____
15. What is another name for something that is not soluble in water? _____
16. Lipids store the _____ energy of all the organic macromolecules.
17. What are the 5 functions of lipids and what type of lipid performs that function?
 1. _____ type- _____
 2. _____ type- _____
 3. _____ type- _____
 4. _____ type- _____
 5. _____ type- _____
18. What are triglycerides made of and which type is good for you?

19. _____ are the building blocks of proteins.
20. What is the difference between essential and non-essential amino acids? _____

21. Amino acids are held together by _____.