**CHAPTER 6: CHEMISTRY IN BIOLOGY RFC #5**

\* Read the following questions, **THEN** read from Chapter 6 p.166 to p.168 **STOP @ lipids**, **THEN** answer the following questions on your own paper in complete sentences.

1. What is the main idea of Section 4?
2. Why is the Earth often considered carbon-based?
3. What is organic chemistry?
4. How many valence electrons does carbon have? How many covalent bonds can carbon form?
5. The variety of carbon compounds can be seen in what shapes?
6. **Type II:** Compare and Contrast macromolecules and polymers. Be sure to include monomers in your answer.
7. How are macromolecules organized?
8. Copy table 1 from p. 167, you do not need to redraw the pictures.
9. What elements bond to form carbohydrates AND in what ratio?
10. What is the general formula for carbohydrates? What does the n stand for?
11. **TYPE II:** Describe the similarities and differences between monosaccharide’s, disaccharides, and polysaccharides. Provide an example of each and circle them in your description. Underline the differences, and draw a box around the similarities.
12. Why is glycogen an important polysaccharide?
13. Explain the structure of cellulose and what function does it serve?

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