

Chapter 2 The Chemistry of Life **Section Review 2-3**

Reviewing Key Concepts

Identifying *On the lines provided, identify each statement as describing carbohydrates, lipids, nucleic acids, or proteins.*

- _____ 1. the main source of energy for living things
- _____ 2. help carry out chemical reactions
- _____ 3. important parts of biological membranes
- _____ 4. contain hydrogen, oxygen, nitrogen, phosphorus, and carbon
- _____ 5. transport substances in and out of cells
- _____ 6. composed of amino acids
- _____ 7. sugar and starches
- _____ 8. store and transmit hereditary information

Completion *On the lines provided, complete the following sentences.*

- 9. Lipids are made up of fatty acids and _____.
- 10. Glucose, galactose, and fructose are carbohydrates called _____.
- 11. The two basic kinds of nucleic acids are _____ and _____.
- 12. _____ are polymers of amino acids.
- 13. A fatty acid with the maximum number of hydrogen atoms possible is _____.

Reviewing Key Skills

14. Applying Concepts No other element can form the amount and variety of molecules that carbon can form. What characteristics does carbon have that explain this characteristic?

15. Comparing and Contrasting Plastics are synthetic, organic polymers. How are plastics similar to polysaccharides? How are they different?

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