

UNIT
7

REVIEW

Cellular Chemistry Review

Part one. Fill in the missing information in the table below.

Macromolecule	Example	Role
Carbohydrate	1. _____	Help form cell walls and membranes; Provide energy.
2. _____	Fats	Help form cell membranes. 3. _____
4. _____	Enzymes	Help form cell membranes and organelles; Speed up chemical reactions
5. _____	DNA and 6. _____	Direct all the cell's functions

Part two. Match each term with its definition by writing the letter of the correct definition in the blank beside the term.

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|------------------------|---|
| _____ 7. element | a. type of nucleic acid that plays an important role in the production of proteins. |
| _____ 8. atom | b. type of nucleic acid that passes from parent to offspring and directs all the cell's functions |
| _____ 9. compound | c. very large molecules made of carbon, oxygen, hydrogen, nitrogen, and phosphorus |
| _____ 10. molecule | d. large molecules made of carbon, hydrogen, oxygen, nitrogen, and, in some cases, sulfur |
| _____ 11. proteins | e. the smallest unit of most compounds |
| _____ 12. amino acids | f. small molecules that make up proteins |
| _____ 13. enzyme | g. the chemical combination of two or more elements |
| _____ 14. nucleic acid | h. type of protein that speeds up chemical reactions in organisms |
| _____ 15. DNA | i. the smallest unit of an element |
| _____ 16. RNA | j. any substance that cannot be broken down into simpler substances without losing its properties |