

Cell Processes and Energy ▪ *Review and Reinforce*

Chemical Compounds in Cells

Understanding Main Ideas

Fill in the blanks in the table below.

Organic Compounds		
Type of Compound	Example	Major Roles in Living Things
Carbohydrates	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	Direct all the cell's functions; 6. _____

Building Vocabulary

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. compound | b. type of nucleic acid that passes from parent to offspring and directs all the cell's functions |
| _____ 9. carbohydrate | c. very large organic molecules made of carbon, oxygen, hydrogen, nitrogen, and phosphorus |
| _____ 10. proteins | d. large organic molecules made of carbon, hydrogen, oxygen, nitrogen, and, in some cases, sulfur |
| _____ 11. amino acids | e. small molecules that make up proteins |
| _____ 12. enzyme | f. the chemical combination of two or more elements |
| _____ 13. lipid | g. type of protein that speeds up chemical reactions in living things |
| _____ 14. nucleic acids | h. any substance that cannot be broken down into simpler substances |
| _____ 15. DNA | i. an energy-rich organic compound such as sugar |
| _____ 16. RNA | j. an energy-rich organic compound such as fat |