

SECTION 1 - 3

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.

_____ **7.** element

_____ **8.** atom

_____ **9.** compound

_____ **10.** molecule

_____ **11.** organic compounds

_____ **12.** inorganic compounds

_____ **13.** proteins

_____ **14.** amino acids

_____ **15.** enzyme

_____ **16.** nucleic acids

_____ **17.** DNA

_____ **18.** RNA

a. most compounds that contain carbon

b. type of nucleic acid that plays an important role in the production of proteins

c. compounds that do not contain the element carbon

d. type of nucleic acid that passes from parent to offspring and directs all the cell's functions

e. very large organic molecules made of carbon, oxygen, hydrogen, nitrogen, and phosphorus

f. large organic molecules made of carbon, hydrogen, oxygen, nitrogen, and, in some cases, sulfur

g. the smallest unit of most compounds

h. small molecules that make up proteins

i. the chemical combination of two or more elements

j. type of protein that speeds up chemical reactions in living things

k. the smallest unit of an element

l. any substance that cannot be broken down into simpler substances