

Section 6.3 Life Substances

In your textbook, read about the role of carbon in organisms.

For each of the following statements about carbon, write true or false.

- _____ 1. Carbon atoms can bond together in straight chains, branched chains, or rings.
- _____ 2. Large molecules containing carbon atoms are called micromolecules.
- _____ 3. Polymers are formed by hydrolysis.
- _____ 4. Cells use carbohydrates for energy.

Write each item below under the correct heading.

sucrose glucose starch $C_6H_{12}O_6$
 cellulose glycogen fructose $C_{12}H_{22}O_{11}$

| Monosaccharide |
|----------------|
| 5. |
| 6. |
| 7. |

| Dissaccharide |
|---------------|
| 8. |
| 9. |

| Polysaccharide |
|----------------|
| 10. |
| 11. |
| 12. |

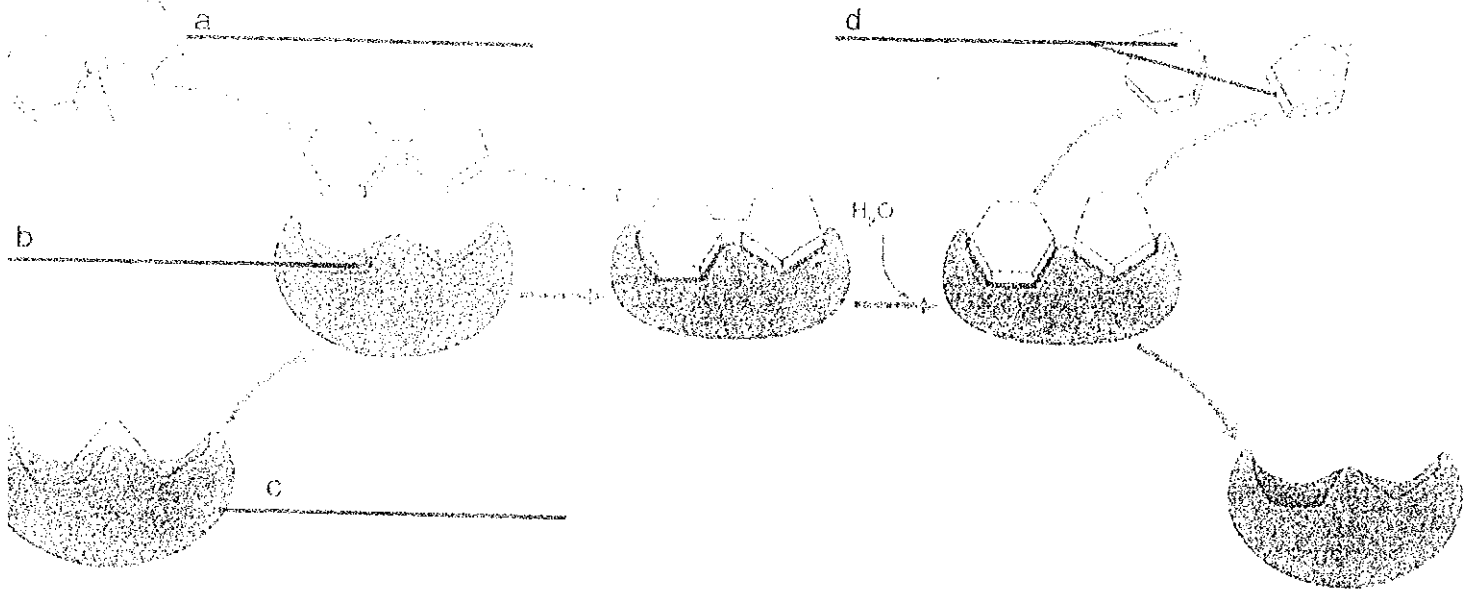
Complete the table by checking the correct column for each description.

| Description | Lipids | Proteins | Nucleic Acids |
|--|--------|----------|---------------|
| 13. Made up of nucleotides | | | |
| 14. Most consist of three fatty acids bonded to a glycerol molecule | | | |
| 15. DNA and RNA | | | |
| 16. Contain peptide bonds | | | |
| 17. Produce proteins | | | |
| 18. Commonly called fats and oils | | | |
| 19. Made up of amino acids | | | |
| 20. Used for long-term energy storage, insulation, and protective coatings | | | |
| 21. Contain carbon, hydrogen, oxygen, and nitrogen | | | |

Name _____

ENZYMES

1. Label the diagram



Notes