

Skills Worksheet

Directed Reading

Section: Energy and Chemical Reactions

Read each question, and write your answer in the space provided.

1. Why is energy important to living things?

2. How does the energy in food become available to organisms?

In the space provided, write the letter of the description that best matches the term or phrase.

- | | |
|------------------------------|--|
| _____ 3. energy | a. ending materials in a chemical reaction |
| _____ 4. reversible reaction | b. energy needed to start a chemical reaction |
| _____ 5. products | c. chemical bonds between atoms are broken and new ones are formed |
| _____ 6. chemical reaction | d. can proceed in the opposite direction |
| _____ 7. activation energy | e. the ability to move or change matter |
| _____ 8. reactants | f. beginning materials in a chemical reaction |

In the space provided, explain how the terms in each pair differ in meaning.

9. energy-releasing reaction, energy-absorbing reaction

10. reactants, products

Name _____ Class _____ Date _____

Directed Reading *continued*

Read each question, and write your answer in the space provided.

11. What is a catalyst?

12. What is an enzyme?

Complete each statement by writing the correct term or phrase in the space provided.

13. A substance on which an enzyme acts is called a(n)

14. Hydrogen _____ is a substrate of the enzyme catalase.

15. A(n) _____ is the part of the enzyme into which the substrate fits.