

Review and Reinforce

Photosynthesis

Understanding Main Ideas

Fill in the blanks in the photosynthesis equation below with the names of the missing elements or compounds. Then answer the questions that follow on a separate sheet of paper.

1. _____ + 2. _____ + light energy →
3. _____ + 4. _____
5. What are the raw materials of photosynthesis?
6. What are the products of photosynthesis?
7. Why is *light energy* written on the left side of the equation?
8. Where does photosynthesis generally occur?

Building Vocabulary

Fill in the blank to complete each statement.

9. The process by which a cell captures the energy of sunlight and uses it to make food is called _____.
10. _____ are colored chemical compounds that absorb light.
11. The main pigment found in the chloroplasts of plants is _____.
12. An organism that makes its own food is a(n) _____.
13. A(n) _____ is an organism that cannot make its own food.
14. One sugar produced by photosynthesis is _____.

Review and Reinforce

Cellular Respiration

Understanding Main Ideas

Fill in the blanks in the table below.

Cellular Respiration

Raw Materials	Products
Glucose	1.
2.	Water
	3.

Answer the following questions in the spaces provided.

4. Where in the cell does the first stage of cellular respiration take place?

5. Where in the cell does the second stage of cellular respiration take place?

6. Which type of fermentation occurs in yeast?

7. Which type of fermentation sometimes occurs in human muscle cells?

Building Vocabulary

Answer the following questions on a separate sheet of paper.

8. Why are cellular respiration and photosynthesis opposite processes?

9. In what ways are cellular respiration and fermentation alike? In what ways are they different?

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Review and Reinforce

Cell Division

Understanding Main Ideas

Fill in the blanks in the table below.

Phases of Mitosis

Phase	Event
Prophase	1.
2.	Chromosomes attach to spindle fibers.
Anaphase	3.
4.	New nuclear envelope forms.

Answer the following questions on a separate sheet of paper.

5. Which stage of the cell cycle usually lasts the longest?
6. During which stage of the cell cycle does DNA replication occur?
7. During which stage of the cell cycle does the cell membrane pinch the cell into two?

Building Vocabulary

Match each term with its definition by writing the letter of the correct definition in the right column on the line beside the term in the left column.

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|---------------------|--|
| 8. ___ interphase | a. regular sequence of growth and division that cells undergo |
| 9. ___ mitosis | b. first stage of the cell cycle |
| 10. ___ cell cycle | c. process in which DNA is copied |
| 11. ___ cytokinesis | d. stage of the cell cycle during which the cell's nucleus divides |
| 12. ___ replication | e. doubled rod of condensed chromatin |
| 13. ___ chromosome | f. final stage of the cell cycle |