

Key

Name _____ Class _____ Date _____
Directed Reading A continued

GETTING ENERGY FROM FOOD

- * 11. Cells use oxygen to break down food.
- * 12. Many cells are able to get energy without using oxygen through a process called fermentation.

13. Why is breathing important to many organisms?

Breathing supplies the oxygen needed for cellular respiration.

* 14. Describe what takes place during cellular respiration in complex organisms.

Food is broken down into CO₂ and H₂O, and energy is released.

15. What does your body do with the energy released during cellular respiration?

It maintains body temperature and fuels cell activity.

* 16. Adenosine triphosphate, also called ATP, is formed during cellular

respiration. ATP supplies energy that fuels cell activities.

* 17. Cellular respiration in the cells of eukaryotes takes place in

Mitochondria inside the cell.

* 18. During photosynthesis, plant cells take in carbon dioxide, CO₂, and release oxygen, O₂. How is this different from cellular respiration?

During cellular respiration, Oxygen (O₂) is taken in and Carbon Dioxide (CO₂) is released.

19. Why do you get a burning sensation in your muscles during strenuous exercise?

When your muscles can't respire, they fermentate to get energy. This creates an acid that causes a burning sensation

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20. What is another kind of fermentation?

Yeast forms CO₂ and the bubbles cause dough to rise.

21. How does the process of fermentation help bread rise?

The yeast produces CO₂ bubbles that cause the dough to rise and leave small holes in the bread.

Match the correct description with the correct term. Write the letter in the space provided.

- * D 22. this occurs when cells use oxygen to produce energy from food
a. oxygen
b. yeast
- * F 23. the breakdown of food without using oxygen
c. the sun's energy
d. cellular respiration
- * B 24. this forms carbon dioxide, CO₂, during fermentation and is used to help bread rise.
e. water, carbon dioxide, and energy
- * C 25. this is converted into food by the process of photosynthesis
f. fermentation
- * A 26. this is released during photosynthesis, cells take in CO₂
- * E 27. this is released by cells during cellular respiration

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