

Cell Biology

Name:

Cell Energy

Period:

Use Chapter 5, Section 1 of your textbook to answer the questions below. The word banks can be used to fill out the sentences below them.

chlorophyll chloroplast energy food food oxygen photosynthesis reproduce sun sun

Section 1: Cell Energy (p.148)

1. All cells need energy to live, grow, and _____.
2. Plant cells get their energy from the _____.
3. A lot of animal cells get the energy they need from _____.



From Sun to Cell (p.148)

4. Almost all the energy used by living things comes from the _____.
5. Plants change energy from the sun into _____.
6. The process that plants use to make food is called _____.
7. Plants use the food they make for _____.

Photosynthesis (p.148)

8. The pigment _____ gives plants their green color.
9. In photosynthesis, which of the following two things do plants use with sunlight to make food?
a. water & oxygen b. water & sugar c. water & carbon dioxide d. water & salt
10. Which of the following is food that plants make for themselves?
a. salt b. glucose c. chlorophyll d. fertilizer
11. What gas is produced through photosynthesis? _____
12. Look at Figure 1. In what cell organelle does photosynthesis take place? _____



turn over for more questions

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cell membrane cellular respiration cellular respiration eat energy fermentation
grass mitochondria

Getting Energy from Food (p.149)

13. Animal cells can't make their own food. What must animals do to get food? _____
14. Breaking down food for energy using oxygen is called _____.
15. Breaking down food for energy without using oxygen is called _____.
- _____ 16. How do most complex organisms (like animals) get their energy?
a. through breathing c. through fermentation
b. through eating d. through cellular respiration

Cellular Respiration (p.149)

17. In prokaryotic cells, cellular respiration happens in the _____.
18. In eukaryotic cells, cellular respiration happens in the _____.
- _____ 19. Which of the following is broken down into CO_2 and H_2O during cellular respiration?
a. energy b. oxygen c. food d. adenosine triphosphate (ATP)
- _____ 20. For what do animals use most of the energy freed during cellular respiration?
a. to keep body temperature constant
b. to help body temperature change
c. to form adenosine triphosphate (ATP)
d. to fuel cell activities, such as growth
21. Energy released during cellular respiration can form ATP, which is _____ that is easily available for the cell to use.
22. Look at Figure 2. The cells of the cow get their energy from _____.
23. Look at Figure 2. The cells of the cow will use the process of _____ to get their energy.

