

Name _____ Date _____

Cells and the Cycle of Energy

Directions: Match the statements below with the appropriate term. Write the letter in the space provided.

- ____ 1. The process in which glucose is broken down and ATP is made
- ____ 2. Also known as autotrophs
- ____ 3. The ability to do work
- ____ 4. Stored chemical energy; sugar
- ____ 5. The energy-carrying molecule that cells use for energy
- ____ 6. Process that stores energy from sunlight into the chemical bonds of glucose
- ____ 7. Organisms that make their own food
- ____ 8. All animals, fungi, and many protists
- ____ 9. Organisms that must eat; another name for a heterotroph
- ____ 10. Molecules that store energy in their chemical bonds
- ____ 11. The site of photosynthesis
- ____ 12. The site of cellular respiration

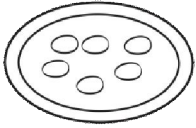

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|-------------------------|-------------------|---------------|-----------------|
| A. Mitochondria | D. Photosynthesis | G. ATP | J. Heterotrophs |
| B. Chloroplast | E. Energy | H. Glucose | K. Consumers |
| C. Cellular respiration | F. Producers | I. Autotrophs | L. Food |

Directions: Write T if the statement below is true and F if the statement is false in the space provided.

- ____ 13. All life needs energy.
- ____ 14. The chemical formula for glucose is $C_6O_{12}H_6$.
- ____ 15. Many scientists consider photosynthesis to be the most important life process on Earth.
- ____ 16. Plants, algae, and some bacteria can make their own food through photosynthesis.

- ____17. Photosynthesis occurs in both plants and animals.
- ____18. Cellular respiration occurs in animal cells but not in plant cells.
- ____19. Because you are able to cook your own food in a microwave oven, you are a producer.
- ____20. Photosynthetic organisms are also known as heterotrophs.
- ____21. Autotrophs are also called producers.
- ____22. Glucose is changed into ATP in the process of photosynthesis.

Directions: Complete the chart below. Write your answers in the spaces provided.

Organelle Structure		
Name of the Organelle		
Process of the Organelle		
Type of Cell Found In		