

## Cell Processes and Energy Study Guide

1. The products of photosynthesis are? **Oxygen & sugars**
2. What happens during photosynthesis? **The cell uses the energy in the sunlight to make food.**
3. Does photosynthesis benefit heterotrophs? Why or why not? **Yes, it creates food that they can eat**
4. What happens during respiration? **Cells break down glucose and release energy**
5. Are photosynthesis and respiration related? If yes, how? **Yes because they have opposite equations**
6. What is the stage of respiration that releases the most energy in the form of glucose? Where does it occur? **Stage – 2<sup>nd</sup> occurs in the mitochondria**
7. What do photosynthesis and respiration do to keep the levels of carbon dioxide and oxygen in the atmosphere? **They work together to keep the levels fairly constant.**
8. The energy releasing process that does not require oxygen is called? **fermentation**
9. When is lactic acid fermentation most likely to occur? **During strong physical activity**
10. What captures energy from sunlight during photosynthesis? **Chlorophyll and other pigments**
11. Where does alcoholic fermentation occur? **In yeast**
12. All organic compounds contain what element? **Carbon**
13. Why is water important for a cell? **Because most chemical reactions in cells require water**
14. Which term refers to the movement of molecules from an area of higher concentration to an area of lower concentration? **Diffusion**
15. Which term refers to the diffusion of water molecules through a selectively permeable membrane? **Osmosis**
16. Which term refers to the movement of materials through a cell membrane without using the cell's energy? **Passive transport**
17. Enzymes are important because they \_\_\_\_\_. **Speed up chemical reactions**
18. Plants use energy from the sun to produce \_\_\_\_\_ and sugars. **Oxygen**
19. A \_\_\_\_\_ is an organism that cannot make its own food. **heterotroph**
20. Photosynthesis and respiration form a cycle that keeps the level of \_\_\_\_\_ and \_\_\_\_\_ fairly constant in the atmosphere. **Oxygen and water**
21. The raw materials for respiration are the \_\_\_\_\_ of the end products for photosynthesis. **opposite**
22. In \_\_\_\_\_ transport, materials move from a higher concentration to a lower concentration through the cell membrane. **passive**
23. Carbon dioxide enters plants through the \_\_\_\_\_. **Stomata**
24. Small openings called \_\_\_\_\_ allow carbon to enter a leaf. **stomata**
25. During respiration, molecules of \_\_\_\_\_ are broken down into cytoplasm. **glucose**
26. Energy from glucose is released in the process of \_\_\_\_\_. **Respiration**
27. The main difference between respiration and fermentation is that respiration uses \_\_\_\_\_ to obtain energy from food. **oxygen**
28. The process in which yeasts break down sugars and produce carbon dioxide and alcohol is called \_\_\_\_\_ fermentation. **Alcoholic**
29. Chloroplasts contain a pigment called \_\_\_\_\_ that captures the energy in light. **Chlorophyll**

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**Hussin A.Rothana**



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