

In Stage 2

## ~Photosynthesis Review Guide~

- 1. What is a heterotroph? Give 2 examples. an organism that must consume (cow human)
- 2. Name the main pigment used during photosynthesis. Cherophy II
- 3. What is an autotroph? Give 2 examples. an organism that makes its own bod.
- 4. Why is chlorophyll so important for Photosynthesis? gets the exercised
- 5. What is the secondary pigment used in Photosynthesis? carolen &
- 6. Write the chemical formula for photosynthesis. CO2 + H20 + SUN O3+glucost
- 7. What is needed during the light dependent reactions? けっこう らいい
- 8. What is produced during the light dependent reactions? OZ
- 9. What happens to water during the light dependent reactions? broken down in H, H & OF yellasd
- 10. What is the purpose of the excited electrons during Photosynthesis? to make ALP, NADPH
- 11. What is needed during the Light independent reactions? Co2 + ATP, NADPH
- 12. What is produced during the light independent reactions?
- 13. What is another name for the light independent reactions? Calux Gue
- 14. How do we see the color green from chlorophyll? reflected
- 15. What organelle is the main focus during photosynthesis? Choroplast
- 16. Where does each phase of photosynthesis occur? |= thylatoid 2= stroppe
- 17. Explain why temperature limits the process of photosynthesis. too cold or had nothing works
- 18. Explain how carbon dioxide can limit the process of photosynthesis. need it for Stage #2
- 19. Explain why water can limit the process of photosynthesis. need it for Stage #/
- 20. Explain how light can limit the process of photosynthesis. need it for Stage #1
- 21. Is ATP made during photosynthesis? Why or why not..... explain your reasoning. No au is used
- 22. What is an example of a C4 plant? CAM plant?

corn pineapple

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## Cellular Respiration Study Guide

1.	What is the cellular respiration equation?
2.	Define Glycolysis. Sugar breaking down
	a. What is being broken down? Glucose
	b. Where does this occur in eukaryotic cells? rytoplasm
	c. Name the product of Glycolysis. Wruvate + ATP
	c. Name the product of Glycolysis. Wruvate + ATP  d. Explain why there is a net gain of only 2 ATP at the end of glycolysis. because 2  Name the second stage of aerobic cellular respiration. Krebs Gycle
3.	Name the second stage of aerobic cellular respiration. Krebs Cycle
	a. Where does this process occur? Mitochondar
	b. Is this stage aerobic or anaerobic? aerobic
	c. Where does it occur in prokaryotes? Cytoplasm
	d. Name the molecule that is broken down. Pyrwate
	e. How many CO2 molecules are made? 🖟
	f. What happens to most of the CO2 Exheled of
	g. How many ATP molecules are produced in this stage? Z
	h. What 2 energy-carrying molecules (electron carriers) are made? NADH , FADH2
4.	Name the third stage of aerobic cellular respiration. ET C
	a. Where does this process occur? mitochondur
	b. What is the purpose of NADH and FADH2? - help create ATP
	c. How many ATP are created? 32
	d. What other product is made? H2O
5.	Total ATP made in aerobic respiration is? 36
6.	How does prokaryotic cellular respiration work? Use cell Membrare - make 38 ATP
7.	When oxygen is not present, then what process occurs? Chaerobic
8.	Name the 2 types of anaerobic respiration. LAF & AF
9.	What is produced during lactic acid fermentation? lactic acid
10	). Can humans go through this process (lactic acid fermentation)? 4
11	How many ATP does this process produce? O by itset
12	2. What is produced during alcoholic fermentation? $co2 + alcohol$
13	B. What are the "holes" in bread? $COB$
14	I. What type of organisms can go through this process? Yeast
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