

AP Biology 013 – Photosynthesis and Respiration Video Review Sheet

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1. What is the goal of life?
2. Name and describe and give an example of the two life strategies.
3. What are the two types of autotrophs?
4. What are the two types of heterotrophs?
5. Who are the autotrophs making the food for?
6. Where does chemosynthesis occur?
7. Tubeworms contain what type of chemosynthetic organism?
8. Yeast can do alcoholic fermentation. Lactic acid fermentation, that we do, also does not require:
9. Write the equation for photosynthesis (reverse is cellular respiration):
10. What are you storing in the glucose molecule?
11. What is the delta G?
12. Where does the light reaction take place specifically?
13. Where does the Calvin Cycle take place specifically?
14. Make a summary statement about what photosynthesis is:
15. What is chlorophyll and what does it do?
16. Where did the electron come from that formed NADPH?

17. As the electrons pass through the _____ they use their energy to pump _____ to:
18. When the protons are concentrated on one side of the membrane, they pass through _____ complex and form:
19. The process stores the energy of _____ in _____ and _____
20. Calvin Cycle: Use the ATP and NADPH to make
21. Evolution: What gas has increased over time?
22. What type of reaction is Cellular Respiration? (exergonic or endergonic)
23. Make a simple diagram of a mitochondrion:
24. In glycolysis, you start with one glucose and produce two:
25. In the Krebs cycle we store energy from the pyruvate in _____ so we can finally use that in the:
26. Now an electron transport chain, again as we transfer electrons we are pumping...
27. Again, H^+ flow through ATP synthase complex to form:
28. The electron that passed through the chain will eventually bind with _____ forming: